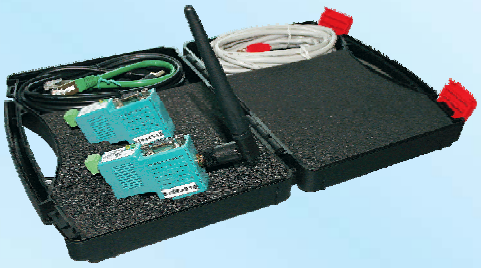
Innovative PLC-Components



with

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PLC - Router

Simple and quick router-solutions for automation technique

S7-Firewall

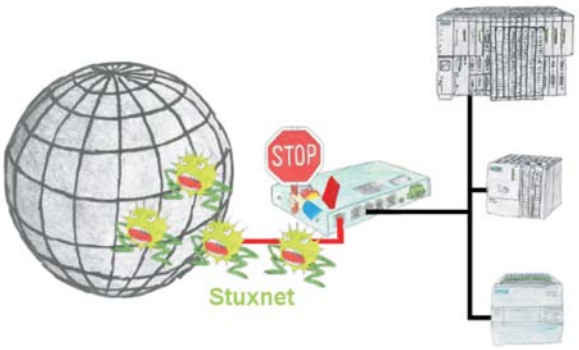
Securing the production-/automation-network from the company-network

- Protection from S7-PLC-Virus Stuxnet
- Step7 protocol filtering
- User access management
- Safe teleservice connection
- Isolated area of maintenance
- Alarm and event log

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	6,5 Watt
Display:	Web-Browser 4 Status-LEDs
Handling/Configuration:	Web-Browser Taster for factory settings
Interfaces:	1 x 10/100BaseTX RJ45-Ethernetjack for WAN-Port 4 x 10/100BaseTX RJ45-Ethernetjack switched all Ethernetports are Auto MDI-X (auto negotiation)
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	154 x 92 x 28 mm

Protection againt virus attacks

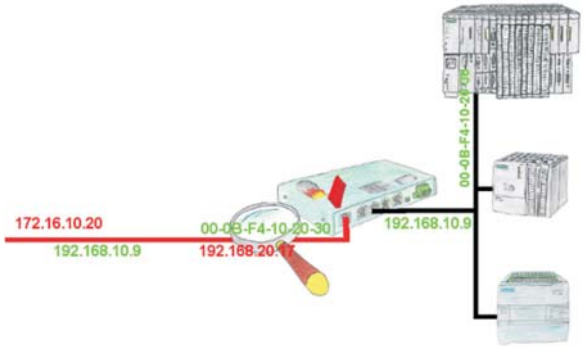


You want to protect your system against virus? No problem, with the S7-Firewall you will be able to protect the plant for the virus "Stuxnet" . You provide the destruction of your plant- or processing-data.

Protection for data-dump and modification

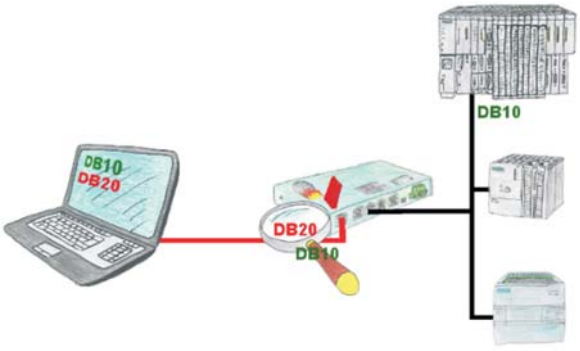
You want to protect your system against access and changes? No problem, with the S7-Firewall you will be able to protect the plant for strange access and provide the dump or modification of your plant- or processing-data.

Permit requests depending on the ip- and mac-address



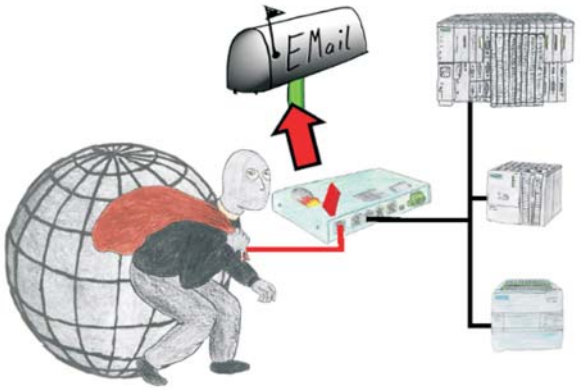
You have in your plant equipment from different manufacturers and no one should get access to the controls of the other? No problem, with the S7-firewall you will be able to filter who communicates at all with the machine-network and which user can communicate with which end user. This is done by ip-address and as well by MAC-address.

Protection of data areas in the PLC



You have in your plant machinery with complex program-structures and want prevent that the user changes unclear data? No problem, with the S7-firewall you can assign each user specific data areas or general protect specific data areas in the PLC.

Log messages via e-mail



You want to be informed about access violations, division overruns while communication with your PLCs? No problem, with the S7-firewall you will be informed by e-mail about any of these attacks/injuries to determine the causer.

article:

Art. ID.	name	price
9373-S7-Firewall	**S7-Firewall** OEM - Version (all accessories optional)	

options:

Art. ID.	name	price
9373-Learn	**Learnmode** Monitors the current traffic in the learn-mode, creating the appropriate rules for equipment requests and setpoints	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	
9636-TCPIP.02M	**Patch-cable 0.25m, Cat5e, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9372-24	**Power connector 3pins big** connector plug lockable by jack with screws	

TELE-Router

The simple and quick router solution for automation

General

- 4 port ethernet switch
- 1 additional WAN port for routing
- IPV6-Ready
- Super simple VPN-Gateway
- Network routing user-oriented & password-protected

Dial in router

- Analog (worldwide usage) or ISDN or PPPoE
- S7-PPI/MPI/DP via S7-LAN
- S7-1200 or S7300/400 with Profinet-Interface
- S5 via S5-LAN++

Features:

- Integrated webserver for configuration of the users
- PPP
- PPPoE (operation with DSL/cable-modem)
- IPV6-Ready
- NAT
- VPN
- DynDNS-support
- DHCP Client/Server
- NTP-Client
- Portforwarding
- Integrated Firewall
- Automatic CALL-Back
- Router-mode
  - Modem <–> LAN
  - Modem <–> WAN
  - WAN <-> LAN
  - User-specific routing (optional)
    For each user definable, which devices (ip-addresses) and to which port may be accessed
- Multiple IP addresses
  Each WAN/LAN-port can get up to 4 different ip-addresses to make immediately with various IP networks and network segments and addresses (eg 192.168.0.x and 172.16.x.x and 10.x.x.x) remote maintenance.
- Routing of individual ip-addresses between WAN/LAN-ports configurable
- Integrated phone-/user-directory:
  In the device telephone- and VPN-users and stored and by clicking on a button, a modem-/VPN-connection is built up to the desired target.

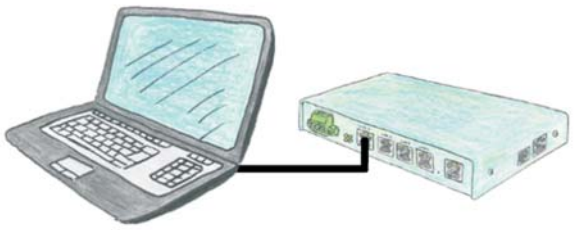
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	6,5 Watt
Display:	Web-Browser 4 Status-LEDs
Handling/Configuration:	Web-Browser Taster for factory settings
Modem-speed: **(depending on the device-variants)**	**Analogue:** 56 KBit/s **ISDN:** 64 KBit/s
Interfaces:	**Ethernet:** 1 x 10/100BaseTX RJ45-Ethernetjack for WAN-Port 4 x 10/100BaseTX RJ45-Ethernetjack switched all Ethernetports are Auto MDI-X (auto negotiation) **Modem:** 1 x RJ45-jack for ISDN modem or RS232 (alternativly) 1 x RJ12-jack for analog modem (alternativly)
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	154 x 92 x 28 mm

Universal coupling

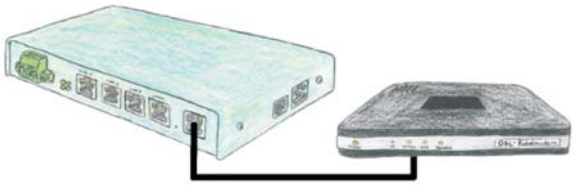
You need a family of devices were you can solve all your requirements? No problem, with the TELE-Router you will be in the situation, to build up a coupling via analog, ISDN or PPPoE (DSL cable modem). The devices are each compatible with one another, so that no other additional hardware is required.

Integrated WebServer



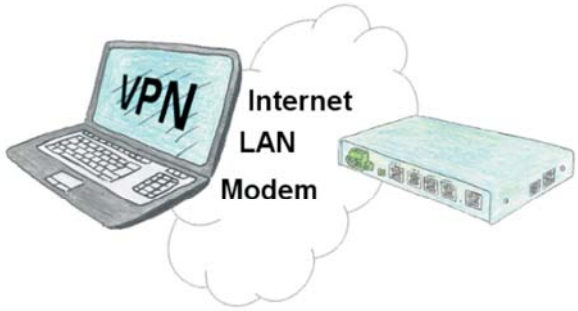
You want to use a device that is small and handy and reasonable configurable? No problem, with the TELE-Router you can solve all these requirements. The device is by an integrated web-server configurable, the connectors self-explanatory.

Operation on DSL-cable-modem



You are looking for a device that also can be used with DSL? No problem, just connect your TELE-Router PPPoE with a DSL/cable-modem, indicate the access parameters and you will be connected with the device with internet.

Secure access through VPN

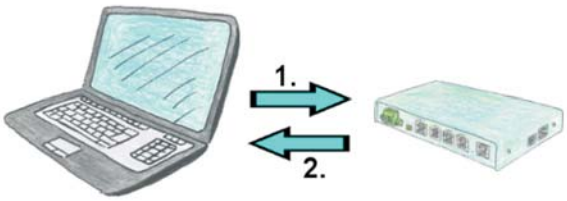


You are looking for a device with were a remote maintenance can be realized via the Internet without compromising security? No problem, with the TELE-Router you can instantly build up after parameterization a VPN connection and after registration you can communicate with your PLCs. An associated VPN-client for the PC can be downloaded from the download-side.

Integrated Firewall-protection

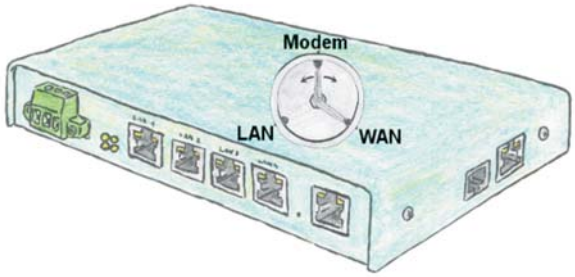
You are looking for a device with were a remote maintenance can be realized via the Internet without compromising security? No problem, the TELE-Router offers you exactly this feature. With the built-in firewall you can adapt the device to your personal requirements.

Saving of phone cost through call-back



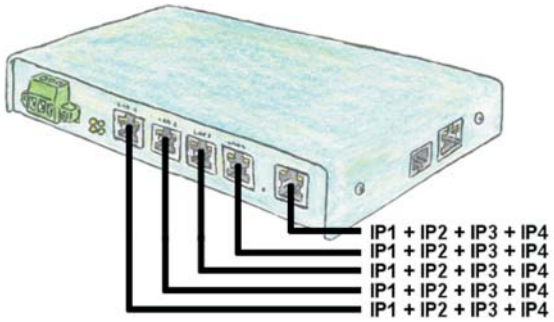
You need a communication over the phone with your plants but would not carry the phone costs? No problem, with the TELE-Router you will be able to maintain the capacity of recall. That is, first dial to the device and tell him that you want a call-back. If the credentials are OK and the recall is allowed, the TELE-router cuts the connection and then calls back the transferred number. So, your customer shall bear the cost of the connection.

Universal router



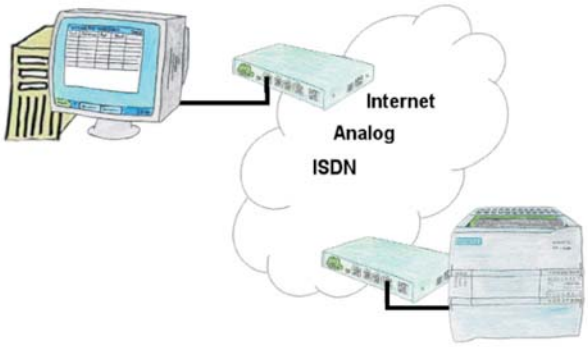
You need a flexible device to realise the remote maintenance of oyur plants? No problem, with the TELE-Router you have a device that can be configured easily and quickly to the requirements you need. Whether you need a coupling between the modem and LAN, WAN or modem and LAN and WAN.

Universal network-administration



You have to remote maintenance multiple networks simultaneously and your existing switch/router does not have so many connectors? No problem, with the TELE-Router you will be able to assign for each LAN/WAN-port up to 4 ip-addresses, so that you will be able to communicate with the various segments and networks.

Integrated phone-book



You have to maintain several plants and don´t want to hold a seperate list of phone numbers? No problem, the TELE-Router contains a phone-book, so you can hold at any time the whole content data in the router and built-up by clicking in the web-browser a connection to the opposite side.

article:		
Art. ID.	**name**	**price**
9373-ANALOG	**TELE-Router analogue (worldwide usage)** OEM - Version (all accessories optional)	
9373-ISDN	**TELE-Router ISDN** OEM - Version (all accessories optional)	
9373-PPPoE	**TELE-Router PPPoE (operation on DSL-/cable-modem** OEM - Version (all accessories optional)	

options:		
Art. ID.	**name**	**price**
9373-Autosave	**Autosave/Restore** Automatic saving of user-definable data and program areas	
9373-Diagnose	**Diagnosis-module** - Display in the network structure available of all simatic S7-systems - Displays properties/diagnostic-buffer of each simatic S7-PLCs	
9373-EMAIL	**E-Mail/Fax/SMS–messaging** Configurable web-based reporting system for sending messages and reports by E-Mail/Fax/SMS	
9373-HMI-Modul	**HMI-module** Configurable web-pages for visualization/controls of S7-PLCs without PLC-programming	
9373-ProfiNet-Router	**ProfiNet-Router** - Coupling of selected ProfiNet-stations via modem/DSL/Internet with VPN - Remote maintenance Simatic S7-ProfiNet over Internet with VPN/modem - ProfiNet telegrams Routing	
9373-S5-S7-COM	**S5-S7-COM** - S5/H1-CP's will be RFC1006 compatible, without changes in the S5 - accessing a S5 via H1 like a S7 => WinCC with his TP's and MP's immediately accessible via TCP/IP on a S5 - S5/H1-CP in a TCP/IP-network	
9373-Switch-Manager	**Switch-Manager** For each individual user definable, which ports are connected	
9373-Userroute	**Userroute** User-specific routing: For each user definable, which devices (ip-addresses) and to which port may be accessed	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	
9636-TCPIP.02M	**Patch-cable 0.25m, Cat5e, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9372-24	**Power connector 3pins big** connector plug lockable by jack with screws	
9370-TAE	**TAE junction box** analogue telephone box (NFN) for on-wall mounting	
9370-SET	**Phone-connector-set 16parts** worldwide use	
9370-8-D/USA	**Phone-cable analogue Germany+USA** RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	
9370-8-ISDN	**Phone-cable ISDN** RJ45 plug <=> RJ45 plug, assigned 1to1	
9370-8-BE	**Special phone-cable for Belgium** RJ12 plug <=> telephone plug of Belgium	
9370-8-DK	**Special phone-cable for Denmark** RJ12 plug <=> telephone plug of Denmark	
9370-8-FR	**Special phone-cable for France** RJ12 plug <=> telephone plug of France	
9370-8-GB	**Special phone-cable for Great Britain** RJ12 plug <=> telephone plug of Great Britain	
9370-8-NL	**Special phone-cable for Netherlands** RJ12 plug <=> telephone plug of the Netherlands	
9370-8-CH	**Special phone-cable for Switzerland** RJ12 plug <=> telephone plug of Switzerland	
9370-8-AT	**Special phone-cable for Austria** RJ12 plug <=> telephone plug of Austria	

PLC - Remote maintenance

Facilities management world wide by telephone

Which system programmer does not know this: On Friday, just before weekend, a call from a customer comes in: **„ The production stands still, nothing works. You have to solve this problem immediately. Otherwise...e.g.“.** No other choice than going as fast as possible to the customer to set the important system into operation.

What could be the problem? Which input, that is necessary for the release of the program, is not set? Is the problem caused by the end switch?

During the long ride to the customer, many of such questions come to mind. Then sometimes it happens, that you discover a still missing link in your PLC program. Wouldn't it be nice, to get rid of the problem simply with a phone call.

Why not? **Our remote maintenance devices are the answer to the question.**

application table:

	TELE LINK NETWORK				
	Tele-Prof-II	**Tele-Prof**	**Tele-Book**	**MPI-Modem**	**TELEService**
secured modem-protocol	x	x	x		
additional software needed				Siemens TS -Software	Siemens TS -Software
modem	analogue/ISDN	analogue	opt. via PCMCIA	analogue/GSM	analogue/ISDN/GSM
modem for world wide use	x	x	x	x	x
interfaeces					
MPI/Profibus	9600-12MBd			9600-12MBd	9600-12MBd
RS232	2x	2x	2x	1x	1x
TTY	2x	2x	2x		
PCMCIA	2x	1x	1x		
Ethernet	10/100BaseTx				
USB	2x				1x
LCD	x	x	x	x	instead 10 LEDs
supported PLC-protocols *					
S7	x	x	x	x	x
S5	x	x (optional)	x (optional)		
Pilz PSS	x	x (optional)	x (optional)		
Allen-Bradley	x	x (optional)	x (optional)		
AEG		x (optional)	x (optional)		
Bosch		x (optional)	x (optional)		
Telemecanique		x (optional)	x (optional)		
GE-Fanuc		x (optional)	x (optional)		
Klöckner-Moeller		x (optional)	x (optional)		
Mitsubishi		x (optional)	x (optional)		
SMS-sending/Pager(S5/S7)	x	x	x		x (no Pager)
SMS-receive with GSM					x
DTMF with analogue					x
e-mail-dispatch	x				x
FAX-dispatch(S5/S7)	x	x (optional)	x (optional)		
PLC-data coupling(S5/S7)	x	x (optional)	x (optional)		
ASCII-transfer from S5/S7	x	x (optional)	x (optional)		
internet-coupling	x				
power supply	24V/DC	24V/DC	24V/DC	24V/DC	24V/DC
dimensions w x h x d (in mm)	Hoch: 67 x 280 x 170 FLAT: 300 x 175 x 70	300 x 175 x 66	235 x 162 x 37	90 x 162 x 54	40 x 125 x 115

* other PLC types on request

TELE-LINK-NETWORK

Secure and comfortable remote maintenance with all devices of the Tele-Link-Network family

- interconnecting of all devices of the Tele-Link-Network-family possible
- multiple secure intelligent modem transmission protocol
- electronics to the telephone network and the external power supply as well as to the control system respectively to the programming unit galvanically isolated
- robust steel plate case with mounting flange

TELE-PROFessional-II (TP-II)

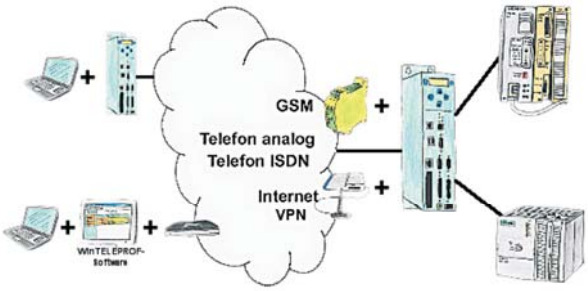
Programming of S5- and S7-PLC's via telephone from afar

- secured modem-protocol, no additional software needed
- UMTS- / VPN- / internet-service
- also for PLC's with ProfiNet
- SMS and fax sending directly from S7-300/400 (no PLC-programming necessary)
- analogue modem couples automatically via ISDN
- with integrated CP-343-1 / 443-1 functionality
- Ethernet also for router function
- PCMCIA-slots (only for version -H) for extensions (memory cards / specific modem cards (GSM) / WLAN)
- compatible to the forerunner model (TELE-Prof / TELE-Book / TELE-Link)
- also as TCP/IP-router
- S7-variables display via Web-Browser
- S7-remote maintenance with MPI-Interface
- S5-remote maintenance (access to every S5 direct / via H1, L1, L2 and KOR/MUX)
- integrated telephone directory
- call-back of partner possible
- software-update via PC (LAN) respectively from device to device possible

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	15 watt
Display:	expressive LCD display 5 status LEDs
Handling/Configuration:	integrated keypad WEB-Browser
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd TTY/20mA current loop (AG-TELE aktiv, PLC passiv) RS232: 9,6 KBd - 115,2 KBd / fully assigned **to the PD/PC:** 10/100BaseTX RJ45-ethernet jack TTY/20mA current loop (100 % mechanically and electr. compatible) RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC **others:** 2xUSB, 2xPCMCIA (only for version -H)
Integrated modem:	33K6 HIGH-SPEED, V.42/BIS MNP5 analogue modem ISDN (Euro ISDN + 1TR6)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange and DIN-rail mounting
Dimensions:	Flat 300 x 175 x 70 mm Hoch 67 x 280 x 170 mm

Remote maintenance / telecontrol of PLC

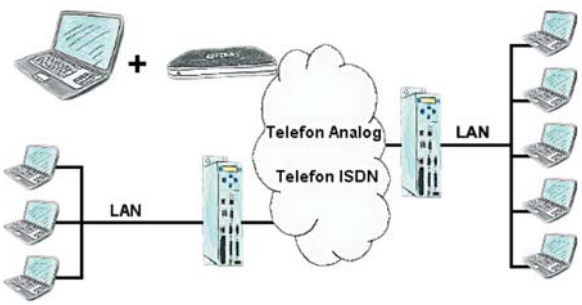


Access to the connected PLC takes place by coupling via Analogue-, ISDN-, mixed Analogue-ISDN-, GSM-, UMTS-line and also via Internet with and without VPN-security.

Analogue and ISDN - how do they come together?

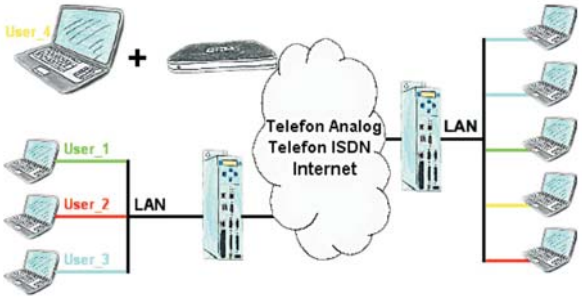
You have on the plant side only ISDN for telephone, but in your office there is only an analogue system? No problem, you have to install on the clients side the TP-II and activate there the analogue-emulation in the device. No, the modem signals will be send digitalized over ISDN and you can connect to it. So, you will be able to communicate though the telephone systems are different and your client isn´t forced to install an analogue connection.

Router Mode (access to the network without router)



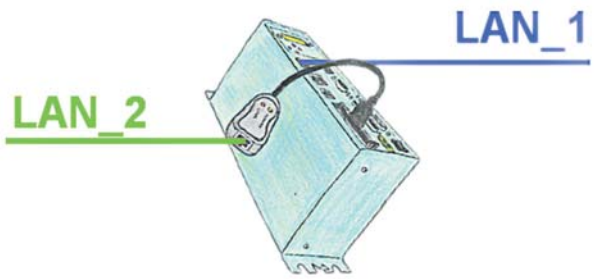
The Tele-Prof-II can also be used as a router for access from a PC via dial-up connection, so that a communication with the behind covered network results. Furthermore a network connection can be made with the TP-II <=> TP-II-line, but in doing so the IP-address-root must differ.

User dependant network access



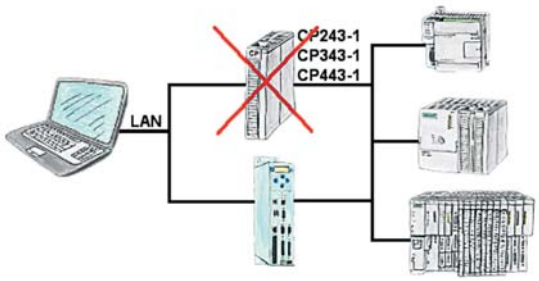
You have PLC/LAN-participants different supplier in your network and everybody should have access to this network? No problem, you give every supplier a VPN-username and passwort, define in the destination device a user-dependent network-access and after positiv login he only can communicate to the released ip-addresses.

Separate your machine-net from the office-net



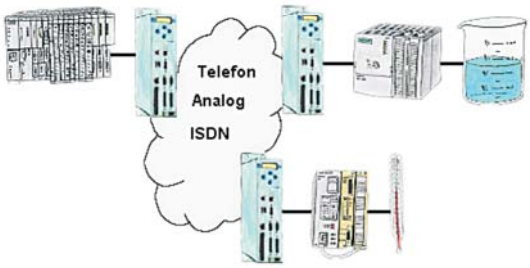
You need a separation between the machine-net and the office-net? No problem, plug a PCMCIA-LAN-card in your Tele-Prof-II-device (only for version -H) and the separation is OK. You have access to both nets via remote maintenance.

S7-CP-alternate (without LAN-CP to the PLC)



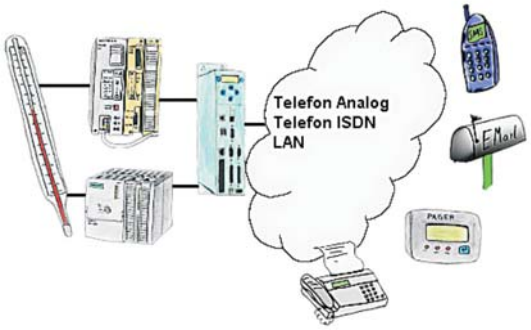
Do you have a PLC without CP343-1 or CP443-1 and a TP-II as remote maintenance device? Then activate the CP-mode of the TP-II and your visualisation goes directly ONLINE via the LAN of the TP-II.

PLC coupling (data exchange between PLCs)



Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, a “normal” telephone connection is sufficient because the devices cut the line after occured message.

Failure report transmission released by the PLC

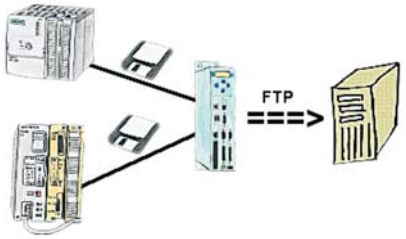


Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, as SMS to your mobile phone, to your pager or also via e-mail.

Sending ASCII-data to a PC

Your car park or control sends the configuration / capacity utilisation to a PC with a modem, so that the data can be used for further processing.

Data logger with FTP-interface

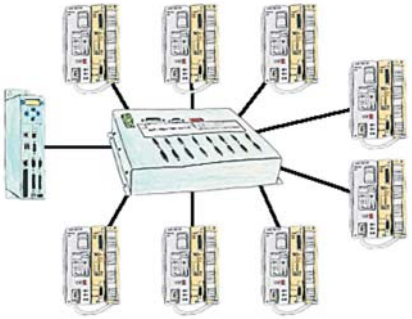


You need a data logger which tape-records the specified data of the PLC and you can collect the data via FTP on demand. No problem, TP-II with the option Datalogger is the solution for you.

Failure report transmission without any change in the PLC programm

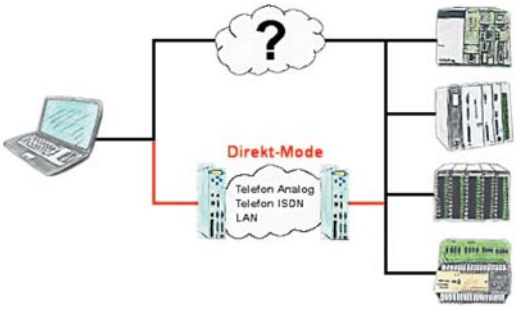
Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, as SMS to your mobile phone, to your pager or also via e-mail. And this without an intervention of the PLC-program. Here the variables and actions are stored and processed in the TP-II.

Remote maintenance of centralized PLC-devices



You have many PLC and you want to programm them central on one place? No problem, you have to connect them all to the KOR/MUX-Tele-Switch, connect it with the TP-II and after telephone connect you will be able with the PD-bus-selection of your Step5-software to go ONLINE. Of course the MOR/MUX-Tele-Switch is cascadable, so you can connect up to 30 PLCs to the devices.

Direct-mode "extended serial interface"



There is an unsupported control or data logger or converter integrated in your installation which protocol is not supported? No problem, the signs that the PC in the office sends will be transferred via telephone line by the Direct-mode, and on-site reproduced by the TP-II. The way back is identical. So in that case there’s also a communication to the electronic devices available.

article:		
Art. ID.	**name**	**price**
9372-OEM	**TELE-PROFessional II worldwide use** OEM - Version (all accessories optional) without PCMCIA-Slot for UMTS-/LAN-card	

variants:		
Art. ID.	**name**	**price**
9372-OEM-H	**TELE-PROFessional II worldwide use** OEM - Version (all accessories optional) with PCMCIA-slot for UMTS-/LAN-Card	
9372-FLAT	**TELE-PROFessional II worldwide use "FLAT"** flat version / OEM - Version (all accessories optional) without PCMCIA-slot for UMTS-/LAN-card	
9372-FLAT-H	**TELE-PROFessional II worldwide use "FLAT"** flat version / OEM - Version (all accessories optional) with PCMCIA-slot for UMTS-/LAN-Card	

accessories:		
Art. ID.	**name**	**price**
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9391-MT	**Mounting set** for DIN-rail-holder	
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	
9379.1	**MPI-/Profibus connecting cable 1m** connects MPI-modem/TP-II with the S7-PLC	
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9361-3	**S5-connecting cable 3m** forTELE-PROF, MINI-/PG-MUX-II	
9361-3.05M	**S5-connecting cable 5m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.06M	**S5-connecting cable 6m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.10M	**S5-connecting cable 10m** for TELE-PROF, MINI-/PG-MUX-II	
9371-6	**Servicebag** for TP, TB + TP-II-FLAT	
9372-24	**Power connector 3pins big** connector plug lockable by jack with screws	
9370-TAE	**TAE junction box** analogue telephone box (NFN) for on-wall mounting	
9372	**TELE-PROFessional II Starter-Kit** completing 9372-OEM	
9370-SET	**Phone-connector-set 16parts** worldwide use	
9370-8-D/USA	**Phone-cable analogue Germany+USA** RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	
9370-8-ISDN	**Phone-cable ISDN** RJ45 plug <=> RJ45 plug, assigned 1to1	
9370-8-BE	**Special phone-cable for Belgium** RJ12 plug <=> telephone plug of Belgium	
9370-8-DK	**Special phone-cable for Denmark** RJ12 plug <=> telephone plug of Denmark	
9370-8-FR	**Special phone-cable for France** RJ12 plug <=> telephone plug of France	
9370-8-GB	**Special phone-cable for Great Britain** RJ12 plug <=> telephone plug of Great Britain	
9370-8-NL	**Special phone-cable for Netherlands** RJ12 plug <=> telephone plug of the Netherlands	
9370-8-CH	**Special phone-cable for Switzerland** RJ12 plug <=> telephone plug of Switzerland	
9370-8-AT	**Special phone-cable for Austria** RJ12 plug <=> telephone plug of Austria	
9372-UMTS-Ant	**UMTS directional antenna** external antenna for the UMTS-card	
9372-UMTS-Card	**UMTS-card for TP-II** Option GLOBETROTTER GT MAX HSUPA	
9352.1	**USB-cable plug/plug Type A-A 3m** USB 1.1 / 2.0 up to 480 MBit	

TELE-PROFessional (TP)

Facilities management world wide – remote maintenance and diagnosis via telephone

- secured modem-protocol, no additional software needed
- high throughput
- no PLC-crash possible
- all online functions possible
- compatible to SIMATIC-S7-200/300/400
- compatible to all SIMATIC-S5-PLC's
- supports operation on H1, L1, L2 regarding path selection
- supports the operation KOR/MUX of Siemens, as well as PD-BUS
- easy handling because of menu navigation and display in plain text
- easy and quick configuration by menu item initial configuration
- multi-stage password levels provide high data security
- cost improvement because of call-back function
- PD-PD-coupling possible
- integrated telephone directory
- compatible to all TELE-Network-devices
- integrated MUX as 2. PD-socket on Siemens
- analogue modem for world wide use
- EMC-compatible circuit arrangement
- other PLC-protocols with optional Tele-Manager reloadable
- software-updates via telephone line transferable
- incl. modem cable and power supply unit

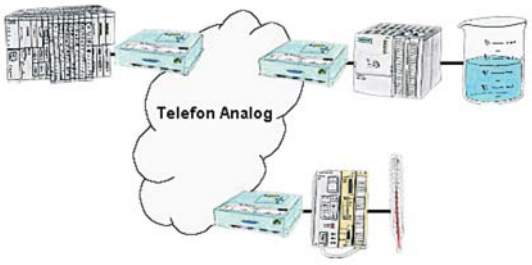
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	expressive LCD-display
Handling/Configuration:	integrated keypad Tele-Manager
Interfaces:	**to the PLC:** TTY/20mA current loop (AG-TELE aktiv, PLC passiv) RS232: 9,6 KBd - 115,2 KBd / fully assigned **to the PD/PC:** TTY/20mA current loop (100 % mechanically and electr. compatible) RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC **others:** 1 x parallel port, 1 x PCMCIA
Integrated modem:	33K6-analogue modem with BZT-approval
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	280 x 170 x 55 mm

Remote maintenance / telecontrol of PLC-devices

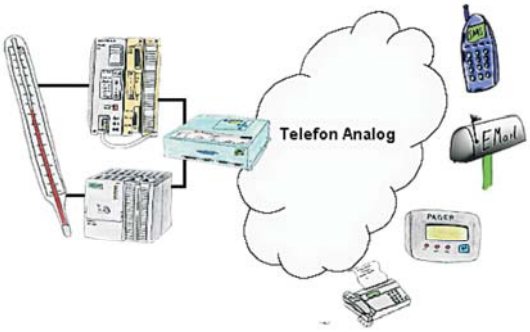
Access to the connected PLC takes place by coupling via Analogue-, ISDN- (only with AB-adapter) and GSM-(only with external GSM-modem)-line.

PLC coupling (data exchange between PLCs)



Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, a "normal" telephone connection is sufficient because the devices hangs up the line after occured message.

PLC-coupling (data exchange between PLC-devices)

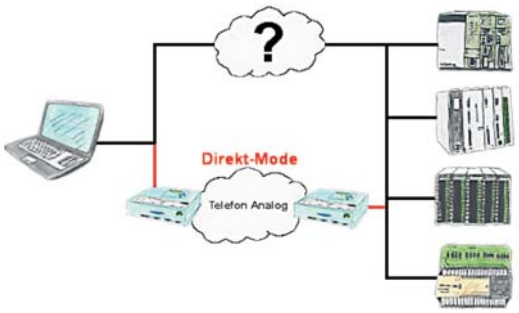


Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, to your mobile phone as SMS or to your pager.

Sending ASCII-data to a PC

Your car park or control sends the configuration/capacity utilisation to a PC with a modem, so that the data can be used for further processing.

Direct-mode „extended serial interface“



There is an unsupported control or data logger or converter integrated in your installation which protocol is not supported? No problem, the signs that the PC in the office sends will be transferred via telephone line by the Direct-mode , and on-site reproduced by the TP/TB. The way back is identical. So in that case there's also a communication to the electronic devices available.

article:

Art. ID.	name	price
9371	**TELE-PROFessional worldwide PLC remote maintenance** German version (complex adaptation)	
9371-US	**TELE-PROFessional** worldwide PLC remote maintenance USA-version	

options:

Art. ID.	name	price
9370-11	**Option ASCII-TELE** ASCII-transfer of DB-contents from S5/7-PLC to a modem	
9370-3	**Option FAX-TELE** sending DB-contents from S5/7-PLC to a fax machine	
9370-7	**Option H1 with CP-cable** programming of S5-PLC's with a CP via H1-bus with PD-path selection	
9370-6	**Option L1 with CP-cable** programming of S5-PLC's with a CP via L1-bus with PD-path selection	
9370-5	**Option L2 with CP-cable** programming of S5-PLC's with a CP via L2-bus with PD-path selection	
9370-2	**Option PLC-TELE** transfer of DB-contents between S5/7-PLC's	
9370.A	**Option TP+TB AEG** TELE-PROFessional for AEG A120,A250	
9370.AB	**Option TP+TB Allen-Bradley** TELE-PROFessional for Allen-Bradley	
9370.B	**Option TP+TB Bosch** TELE-PROFessional for Bosch	
9370.G	**Option TP+TB GE-Fanuc** TELE-PROFessional for GE-Fanuc	
9370.KM	**Option TP+TB Klöckner-Moeller** TELE-PROFessional for Klöckner-Moeller	
9370.M	**Option TP+TB Mitsubishi** TELE-PROFessional for Mitsubishi	
9370.P	**Option TP+TB Pilz** TELE-PROFessional for Pilz PSS	
9370.T	**Option TP+TB Telemechanique** TELE-PROFessional for Telemechanique	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9391-MT	**Mounting set** for DIN-rail-holder	
9370-ISDN	**ISDN-adapter for analogue terminals** full ISDN-functionality e.g. call waiting, 3-way conferencing, broker's call	
9379-ANT	**Magnetic base antenna** for TP, TS + MPI-Modem	
9361-3	**S5-connecting cable 3m** forTELE-PROF, MINI-/PG-MUX-II	
9361-3.05M	**S5-connecting cable 5m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.06M	**S5-connecting cable 6m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.10M	**S5-connecting cable 10m** for TELE-PROF, MINI-/PG-MUX-II	
9370-COM	**Serial PCMCIA-adapter** for TP + TB	
9371-6	**Servicebag** for TP, TB + TP-II-FLAT	
9370-SLM	**Leased-line modem for TP** only usuable as pairs	
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	
9370-TAE	**TAE junction box** analogue telephone box (NFN) for on-wall mounting	
9370-SET	**Phone-connector-set 16parts** worldwide use	
9370-8-D/USA	**Phone-cable analogue Germany+USA** RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	
9370-8-ISDN	**Phone-cable ISDN** RJ45 plug <=> RJ45 plug, assigned 1to1	
9370-8-BE	**Special phone-cable for Belgium** RJ12 plug <=> telephone plug of Belgium	
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9370-8-NL	**Special phone-cable for Netherlands** RJ12 plug <=> telephone plug of the Netherlands	
9370-8-CH	**Special phone-cable for Switzerland** RJ12 plug <=> telephone plug of Switzerland	
9370-8-AT	**Special phone-cable for Austria** RJ12 plug <=> telephone plug of Austria	

TELE-BOOK (TB)

PLC-remote maintenance also available from the car, with 12V power supply

- secured modem-protocol, no additional software needed
- high throughput
- all online functions possible
- easy handling because of menu navigation and display in plain text
- easy and quick configuration by menu item initial configuration
- multi-stage password levels provide high data security
- cost improvement because of call-back function
- integrated telephone directory
- compatible to all TELE-Network-devices
- EMC-compatible circuit arrangement
- other PLC-protocols with optional Tele-Manager reloadable
- software-updates via telephone line transferable
- incl. power supply unit

Technical Specifications:

Supply voltage:	24V/DC (12 - 36V)
Power consumption:	3 watt
Display:	expressive LCD-display
Handling/Configuration:	integrated keypad Tele-Manager
Interfaces:	**to the PLC:** RS232: 9,6 KBd - 115,2 KBd / fully assigned **to the PD/PC:** TTY/20mA current loop (100 % mechanically and electr. compatible) RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC **others:** 1 x PCMCIA
Integrated modem:	-
Operating temperature:	5 - 55°C
Case:	powder coated metal table case
Dimensions:	233 x 162 x 39 mm

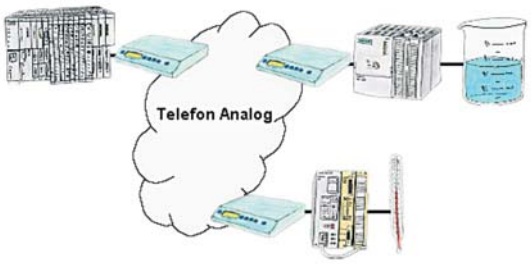
Use in the car with a 12V supply only

Your’re on road with your car and your employee reports a failure? What next? Approach the next parking place and try to get a telephone line to solve the problem? Or solve the problem in your head? Hit the next parking place and start your Tele-Book which is plugged on your car’s cigarette lighter, and build-up a connection to your installation. With the notebook you will solve the problem within a short time.

Remote maintenance / telecontrol of PLC-devices

Access to the connected PLC takes place by coupling via Analogue-, ISDN- (only with AB-adapter) and GSM-(only with external GSM-modem)-line.

PLC-coupling (data exchange between PLC-devices)



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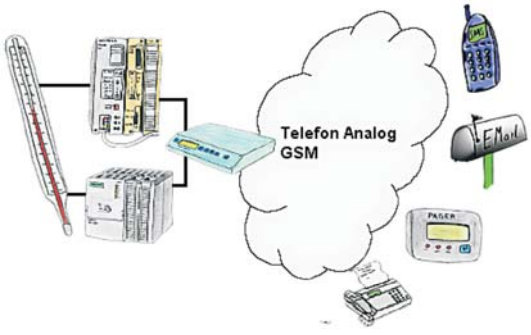
Failure report transmission released by the PLC



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Sending ASCII-data to a PC

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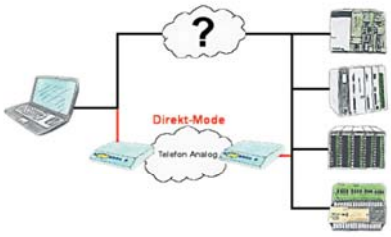
Direct-mode „extended serial interface“



There is an unsupported control or data logger or converter integrated in your installation which protocol is not supported? No problem, the signs that the PC in the office sends will be transferred via telephone line by the Direct-mode , and on-site reproduced by the TP/TB. The way back is identical. So in that case there's also a communication to the electronic devices available.

article:

Art. ID.	name	price
9380	**TELE-BOOK PLC remote maintenance** as PLC-or PG-TELE switchable	

options:

Art. ID.	name	price
9370-11	**Option ASCII-TELE** ASCII-transfer of DB-contents from S5/7-PLC to a modem	
9370-3	**Option FAX-TELE** sending DB-contents from S5/7-PLC to a fax machine	
9370-7	**Option H1 with CP-cable** programming of S5-PLC's with a CP via H1-bus with PD-path selection	
9370-6	**Option L1 with CP-cable** programming of S5-PLC's with a CP via L1-bus with PD-path selection	
9370-5	**Option L2 with CP-cable** programming of S5-PLC's with a CP via L2-bus with PD-path selection	
9370-2	**Option PLC-TELE** transfer of DB-contents between S5/7-PLC's	
9370.A	**Option TP+TB AEG** TELE-PROFessional for AEG A120,A250	
9370.AB	**Option TP+TB Allen-Bradley** TELE-PROFessional for Allen-Bradley	
9370.B	**Option TP+TB Bosch** TELE-PROFessional for Bosch	
9370.G	**Option TP+TB GE-Fanuc** TELE-PROFessional for GE-Fanuc	
9370.KM	**Option TP+TB Klöckner-Moeller** TELE-PROFessional for Klöckner-Moeller	
9370.M	**Option TP+TB Mitsubishi** TELE-PROFessional for Mitsubishi	
9370.P	**Option TP+TB Pilz** TELE-PROFessional for Pilz PSS	
9370.T	**Option TP+TB Telemechanique** TELE-PROFessional for Telemechanique	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9381.KABEL	**Analogue cable for TAE-modem PCMCIA** PCMCIA-modemcard connection <=> TAE plug Germany/USA (spare part)	
9370-ISDN	**ISDN-adapter for analogue terminals** full ISDN-functionality e.g. call waiting, 3-way conferencing, broker's call	
9370-COM	**Serial PCMCIA-adapter** for TP + TB	
9371-6	**Servicebag** for TP, TB + TP-II-FLAT	
9372-24	**Power connector 3pins big** connector plug lockable by jack with screws	
9381	**TAE-modemPCMCIA-card for TELE-BOOK** pcmcia-card inclusive telefon-lead and TAE-adapter	
9370-TAE	**TAE junction box** analogue telephone box (NFN) for on-wall mounting	
9380-9S	**Connecting cable TELE-Book on Slot-PLC** from Siemens	

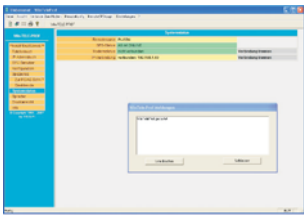
TELE-Manager

configuration / update of TELE-Network devices from PC (Windows-Software)

- reading out and updating of TELE-Network devices' firmware comfortable from PC
- saving and reloading of configuration
- administration of several TELE-Network devices
- With the TWIN option 2 PLC types (firmware-files) can be loaded parallel into a TP device

article:		
Art. ID.	**name**	**price**
9370-TM	**TELE-Manager for Windows 3.x** configuration / Update from PC (Windows Software)	
9370-TM-2	**TELE-Manager TWIN-option** parallel loading of 2 SPS-types (firmware-data sets) in a TP-device	

Win-TELE-PROF



replacement of the PD-TELE at telephone bounded remote maintenance

- Software-TELE-PROFessional for all devices in the TELE-Network
- comfortable telephone book
- intern/external analogue and ISDN-standard modems useable
- no external TELE-device on PC-side necessary
- ideal for on the way use
- also with original Siemens STEP5/7-programming software via virtual COM-Port
- supports TCP/IP-Router of the TELE-PROFessional II
- remote configuration of TELE-Network devices
- Win NT/2000/XP supported
- a 56k Modem is necessary on PC-side

WinTELEPROF-software = software-PG-TELE

Your're using the devices of the Tele-Network-family and don't want to have a device standing on the table? No problem. Install the WinTELEPROF-software on your PC and after link connection access to your Step5/7-programming software (also Siemens) via a virtual Com-Port.
At Step5 the Step5-software is going to be patched, then working with the virtual Com-Port will be also possible.

article:		
Art. ID.	**name**	**price**
9371-PC-S5	**Win-TELE-PROF S5 Ground package TP**	
9371-PC-S5-F	**Win-TELE-PROF S5 Ground package TP**	
9371-PC-S5-S	**Win-TELE-PROF S5 Ground package TP**	
9372-PC-S5	**Win-TELE-PROF S5 Ground package TP-II**	
9372-PC-S5-F	**Win-TELE-PROF S5 Ground package TP-II**	
9372-PC-S5-S	**Win-TELE-PROF S5 Ground package TP-II**	
9371-PC-S5-X	**Win-TELE-PROF S5 Add-on package TP**	
9371-PC-S5-F-X	**Win-TELE-PROF S5 Add-on package TP**	
9371-PC-S5-X-S	**Win-TELE-PROF S5 Add-on package TP**	
9372-PC-S5-X	**Win-TELE-PROF S5 Add-on package TP-II**	
9372-PC-S5-F-X	**Win-TELE-PROF S5 Add-on package TP-II**	
9372-PC-S5-X-S	**Win-TELE-PROF S5 Add-on package TP-II**	
9371-PC	**Win-TELE-PROF S7 Ground package TP**	
9371-PC-F	**Win-TELE-PROF S7 Ground package TP**	
9371-PC-S	**Win-TELE-PROF S7 Ground package TP**	
9372-PC	**Win-TELE-PROF S7 Ground package TP-II**	
9372-PC-F	**Win-TELE-PROF S7 Ground package TP-II**	
9372-PC-S	**Win-TELE-PROF S7 Ground package TP-II**	
9371-PC-X	**Win-TELE-PROF S7 Add-on package TP**	
9371-PC-F-X	**Win-TELE-PROF S7 Add-on package TP**	
9371-PC-X-S	**Win-TELE-PROF S7 Add-on package TP**	
9372-PC-X	**Win-TELE-PROF S7 Add-on package TP-II**	
9372-PC-F-X	**Win-TELE-PROF S7 Add-on package TP-II**	
9372-PC-X-S	**Win-TELE-PROF S7 Add-on package TP-II**	

TELEService

Remote maintenance of PPI, MPI and Profibus <=> analogue 56K-, ISDN-, GSM-Modem

- directly pluggable on the S7-300-profile rack
- power supply from the S7-PLC or external
- SMS and e-mail sending directly from S7-300/400
- RS232-interface for configuration or on-site use as serial PC-Adapter
- USB-interface for configuration or on-site use as USB-PC-Adapter
- Online firmware update and diagnosis over telephone-connection
- all TELESERVICE-devices inclusive S7-cable art.nr: 9377.1 (1m)
- all TELESERVICE-devices inclusive specific telephone lead respectively GSM-antenna

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	detailed status indication via 10 LEDs
Handling/Configuration:	Kabelmanager-Software
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC USB 1.1 jack type B **others:** -
Integrated modem:	56K-analogue modem / ISDN-modem / GSM-modem
Operating temperature:	5 - 55°C
Case:	single-size standard S7-300-case
Dimensions:	40 x 125 x 115 mm

Remote maintenance / telecontrol of PLC

Use on-site without PC-adapter?

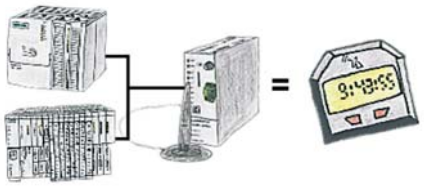
The access to the connected PLC with the Siemens TS-software or PG-2000 including TS-option results of coupling via Analogue-, ISDN- (only with AB-adapter) as well as GSM-line.

With the TeleService-device you can connect serial or by USB-cable to your PC/laptop and then communicate directly with the control without a PC-adapter or other S7-programming cables.
The USB-cable is a standard-cable just as the one you use at your printer.

Failure report transmission released by the PLC

Your outstation reports the current value cyclically, or in case of malfunction the status via FAX, as SMS to your mobile phone, to your pager or also via e-mail.

Atomic time (GPRS) for the PLC



You need an exact time for your S7-plc? No problem, the TeleService-GSM fetches the current time via GPRS from a time-server and advises it to the S7-plc. How often and whenever the time shall be updated can be parameterised in the device.

article:		
Art. ID.	**name**	**price**
9377-ANALOG-OP	**TELESERVICE ANALOGUE up to 12MBaud MPI+DP** without DP V0/V1/V2	
9377-GSM-OP	**TELESERVICE GSM up to 12MBaud MPI+DP** without DP V0/V1/V2	
9377-ISDN-OP	**TELESERVICE ISDN up to 12MBaud MPI+DP** without DP V0/V1/V2	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9379-ANT	**Magnetic base antenna** for TP, TS + MPI-Modem	
9377.1	**MPI-/Profibus connecting cable 1m** for Tele-Service	
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	
9370-TAE	**TAE junction box** analogue telephone box (NFN) for on-wall mounting	
9370-SET	**Phone-connector-set 16parts** worldwide use	
9370-8-D/USA	**Phone-cable analogue Germany+USA** RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	
9370-8-ISDN	**Phone-cable ISDN** RJ45 plug <=> RJ45 plug, assigned 1to1	
9370-8-BE	**Special phone-cable for Belgium** RJ12 plug <=> telephone plug of Belgium	
9370-8-DK	**Special phone-cable for Denmark** RJ12 plug <=> telephone plug of Denmark	
9370-8-FR	**Special phone-cable for France** RJ12 plug <=> telephone plug of France	
9370-8-GB	**Special phone-cable for Great Britain** RJ12 plug <=> telephone plug of Great Britain	
9370-8-NL	**Special phone-cable for Netherlands** RJ12 plug <=> telephone plug of the Netherlands	
9370-8-CH	**Special phone-cable for Switzerland** RJ12 plug <=> telephone plug of Switzerland	
9370-8-AT	**Special phone-cable for Austria** RJ12 plug <=> telephone plug of Austria	
9352.2	**USB-cable plug/plug Type A-B 3m** USB 1.1 / 2.0 up to 480 MBit	

MPI / PPI - Profibusmodem

Programming of S7-PLC's via telephone from afar

- standard modem-protocol, the Siemens TS-software is needed
- analogue modem for world wide use
- data transmission via radio (GSM)
- screwable antenna/prolongable (GSM)
- for Siemens-S7-Teleservice
- incl. modem-cable and S7-cable (1m)
- GSM-Modem incl. magnetic base antenna and S7-cable (1m)

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	expressive LCD-display 4 status-LEDs
Handling/Configuration:	integrated keypad
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC **others:** -
Integrated modem:	33K6-analogue modem GSM-modem
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	165 x 90 x 50 mm

Remote maintenance / telecontrol of PLC

The access to the connected PLC with the Siemens TS-software or PG-2000 including TS-option results of coupling via Analogue-, ISDN- (only with AB-adapter) as well as GSM-line.

Use on-site without PC-adapter?

With the MPI/PPI/Profibus-modem you can connect serial to your PC/laptop and then communicate directly with the PLC without a PC-adapter or other S7-programming cables.

article:

Art. ID.	name	price
9379-OP	**MPI/PPI-Modem** maximum baud rate MPI- and Profibus up to 12Mbaud	
9379-G-OP	**MPI/PPI-Modem GSM** maximum baud rate MPI- and Profibus up to 12Mbaud	

accessories:

Art. ID.	name	price
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9370-ISDN	**ISDN-adapter for analogue terminals** full ISDN-functionality e.g. call waiting, 3-way conferencing, broker's call	
9379-ANT	**Magnetic base antenna** for TP, TS + MPI-Modem	
9379.1	**MPI-/Profibus connecting cable 1m** connects MPI-modem/TP-II with the S7-PLC	
9372-24	**Power connector 3pins big** connector plug lockable by jack with screws	
9370-TAE	**TAE junction box** analogue telephone box (NFN) for on-wall mounting	
9370-SET	**Phone-connector-set 16parts** worldwide use	
9370-8-D/USA	**Phone-cable analogue Germany+USA** RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	

accessories:		
Art. ID.	**name**	**price**
9370-8-BE	**Special phone-cable for Belgium** RJ12 plug <=> telephone plug of Belgium	
9370-8-DK	**Special phone-cable for Denmark** RJ12 plug <=> telephone plug of Denmark	
9370-8-FR	**Special phone-cable for France** RJ12 plug <=> telephone plug of France	
9370-8-GB	**Special phone-cable for Great Britain** RJ12 plug <=> telephone plug of Great Britain	
9370-8-NL	**Special phone-cable for Netherlands** RJ12 plug <=> telephone plug of the Netherlands	
9370-8-CH	**Special phone-cable for Switzerland** RJ12 plug <=> telephone plug of Switzerland	
9370-8-AT	**Special phone-cable for Austria** RJ12 plug <=> telephone plug of Austria	

EVENT-MODEM

Long distance report- and information systems

Basic model:

- Digital in-/outputs, each one configurable as opener or closer
- 8 report targets per input
- Fax, e-mail, SMS, Pager and Voice (fixed report texts)
- inclusive modem-cable

Analogue:

Event-Modem A100 ECO

- analogue modem V92
- 4 digital inputs, 4 digital outputs

Event-Modem A200

- analogue modem V92
- 8 digital in-/outputs
- 2 analogue inputs / 2 analogue outputs
- voice response of the digital- / analogue values
- data logger funktion
- remote maintenance/remote switching via modem and web-interface

Event-Modem A242
composed of Event-Modem A200 and X332

- 8 + 32 digital in-/outputs
- 2 analogue inputs

GSM:

Event-Modem G100 ECO

- GSM-Dualband-Modem
- 4 digital inputs, 4 digital outputs

Event-Modem G200

- GSM-Dualband-Modem
- 8 digital in-/outputs
- 2 analogue inputs / 2 analogue outputs
- voice response of the digital- / analogue values
- data logger funktion
- remote maintenance/remote switching via modem and web-interface

Event-Modem G242
composed of Event-Modem G200 and X332

- 8 + 32 digital in-/outputs
- 2 analogue inputs

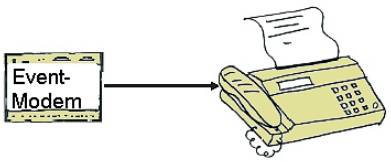
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	4 watt
Display:	Web-Browser
Handling/Configuration:	4 DIP-Switch for operating states
Interfaces:	**to the PLC:** digital in-/outputs analogue in-/outputs **to the PD/PC:** RS232 RS485 **others:** -
Integrated modem:	analogue modem V92 / GSM-modem
Operating temperature:	-20 - +60°C
Case:	plastic case for DIN-rail mounting
Dimensions:	110 x 125 x 60 mm

Direct Voice - speach output with EventModem

The receiver will be called by conventional telephone network or by mobile phone with a direct voice message. If a connection comes off the message will be transmitted.

Direct Fax

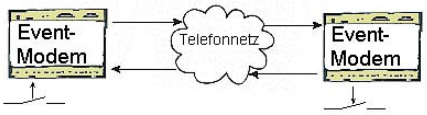


By direct dialling up the fax machine a message is carried out to a fax-receiver. If a connection comes off the message will be transmitted.

Remote Maintenance via keyboard and voice

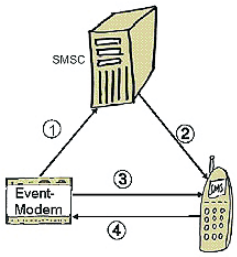
The EventModem remote station will be called directly by conventional Telephone network or by. If a connection comes off, digital In- and Outputs for teleswitching will be transmitted. Each device can both transmit state of things and accordingly receive switch signals.

Remote switching with Eventmodem to Eventmodem



The EventModem will be called by conventional Telephone network or by mobile phone. With a direct voice message and DTMF–tone dialling the corresponding output will be set-up. If a switching operation has come off a speech output will confirm it.

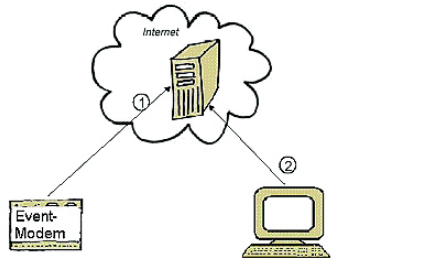
Message via SMS (SMSC)



1. Senden einer SMS
2. Weiterleiten auf Handy
3. Aktiver "Weckruf" und Aufforderung zur Quittierung
4. Quittierung

A SMS to a mobile phone is basically send by SMSC. Within the GSM-network it takes place via on-net SMSC. Thereby it's unimportant in which mobile network the receiver is.
The message is activated by:
- digital contacts (relays, motion detector...)
- serial interface (PLC, PC, Microcontroller ...) bitserial (PLC)
The detection system transmits the SMS to the mobile network operator. The mobile network operator provides the SMS to the mobile phone. Optionally the detection system dials the mobile phone to „wake up" the receiver or to initiate the confirmation handling.

Data logging



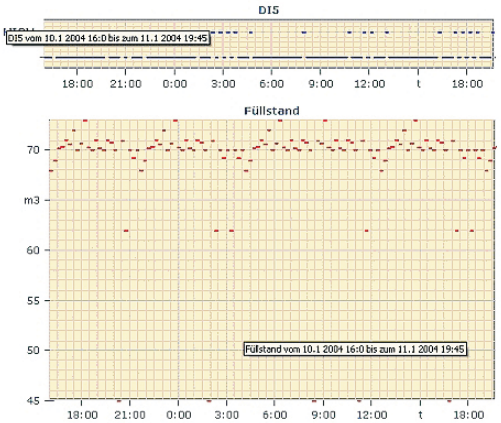


Abb. zeigen Funktion des Datenloggens, realisierbar mit EventModem Serie 200

Cyclic data logging or data logging on occasion is realisable. The log data will be transmitted e.g. once a day via e-mail.
Special data logger functions can be implemented on request and are not part of the basis functions.

To switch a EventModem-output via SMS

SMS-Versenden.
PASS=12345 DO1=1,15

```
PASS=12345 DO1=1,15
|     |     |    | |_ 15 Sekunden Schaltzeit (0 bedeutet dauernd an)
|     |     |    |___ 1 = EIN, 2 = AUS (bei AUS wird keine Schaltzeit beachtet)
|     |     |________ DO1 Schlüsselwort für Digitalausgang (DO1 bis DO8 möglich)
|     |______________ Passwort aus dem Menüpunkt Gerätezugang
|____________________ Schlüsselwort für Passwort
```

Switching an output via SMS is an integrated function of the EventModem. Herewith the switching operation will be secure and comprehensible from afar.

article:		
Art. ID.	**name**	**price**
15300	**Event-Modem A100 ECO** Analogue modem with 4 digital inputs, 4 digital outputs	
15301	**Event-Modem A200** Analogue modem with 8 digital in-/outputs (selectable) and 2 analogue inputs / 2 analogue outputs	
15304	**Event-Modem A242** analogue modem with 8 dig. I/O (selectable) + 32 digital inputs + 2 analouge inputs	
15302	**Event-Modem G100 ECO** GSM-dual band-modem with 4 digital inputs, 4 digital outputs	
15303	**Event-Modem G200** GSM-dual band-modem with 8 digital in-/outputs (selectable) and 2 analogue inputs / 2 analogue outputs	
15305	**Event-Modem G242** GSM modem with 8 dig. I/O (selectable) + 32 digital inputs + 2 analouge inputs	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9379-ANT	**Magnetic base antenna** for TP, TS + MPI-Modem	
9370-TAE	**TAE junction box** analogue telephone box (NFN) for on-wall mounting	
9370-SET	**Phone-connector-set 16parts** worldwide use	
9370-8-D/USA	**Phone-cable analogue Germany+USA** RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	
9370-8-BE	**Special phone-cable for Belgium** RJ12 plug <=> telephone plug of Belgium	
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9370-8-CH	**Special phone-cable for Switzerland** RJ12 plug <=> telephone plug of Switzerland	
9370-8-AT	**Special phone-cable for Austria** RJ12 plug <=> telephone plug of Austria	

S7 - interface

With each interface of your PC to the S7-PLC

- multifunctional, several functions in one product
- well-priced alternative to high-priced original products
- easy handling and therefore quick operation

application table:

	MPI/PPI	MPI - II	MPI - USB	MPI - LAN	S7 - LAN
PPI-Bus					
PPI 9.6 KBit/s - 19.2 KBit/s	x	x	x	x	x
Multimaster 9.6 KBit/s - 187.5 KBit/s		x	x	x	x
MPI-Bus					
19.2 KBit/s	x	x	x	x	x
187.5 KBit/s	x	x	x	x	x
1.5 MBit/s		x	x	x	x
Profibus					
9.6 KBit/s		x	x	x	x
19.2 KBit/s	x	x	x	x	x
45.45 KBit/s		x	x	x	x
93.75 KBit/s		x	x	x	x
187.5 KBit/s	x	x	x	x	x
500 KBit/s		x	x	x	x
1.5 MBit/s		x	x	x	x
3.0 MBit/s		x	x	x	x
6.0 MBit/s		x	x	x	x
12.0 MBit/s		x	x	x	x
Profibus-profile					
DP	x(12)	x	x	x	x
standard	x(12)	x	x	x	x
universal(DP/FMS)		x	x	x	x
RS 232					
9.6 KBit/s	x(19)	x(19)			
19.2 KBit/s	x	x			
38.4 KBit/s	x	x			
57.6 KBit/s	x(9)	x(9)			
115.2 KBit/s	x(9)	x(9)			
USB					
USB 1.1 (6)		x(1)	x		
LAN					
10/100BaseTx				x(7)	x
TeleService operation					
with S7-300/400	x(14)(18)	x(14)(18)			
baud rates at TS-operation directly at the PC					
9.6 KBit/s	x	x			
19.2 KBit/s	x	x			
38.4 KBit/s	x(8)	x(8)			
57.6 KBit/s	x(8)	x(8)			
baud rates at TS-operation directly with a modem					
9.6 KBit/s	x	x			
19.2 KBit/s	x	x			
38.4 KBit/s	x	x			
57.6 KBit/s	x	x			
115.2 KBit/s	x	x			
HMI					
9.6 KBit/s	x	x	x(13)	x(13)	x(13)
19.2 KBit/s	x	x	x(13)	x(13)	x(13)
38.4 KBit/s	x	x	x(13)	x(13)	x(13)
57.6 KBit/s	x	x	x(13)	x(13)	x(13)
115.2 KBit/s	x	x	x(13)	x(13)	x(13)
update					
firmware-update	x(10)	x(10)	x(15)	x(15)	x(15)
input/online help					
keypad		x	x	x	
display	x	x	x	x	
simultaneous PD connections					
PLCVCOM	x	1	1	8	8
RFC1006				x	x

simultaneous AG connections					
passive subscriber	1	15	15	15	15
active subscriber	126	126	126	126	126
more functions					
webserver for configuration				x	x
status/control variable(20)				x	x
S7 on S7/S5 DB exchange(20)				x	x
S5 on MPI DB exchange(20)		x			
S7 on MPI (Send/Fetch)(20)				x	x
Profinet Gateway(20)				x	x
MPI-Printer(network, lpr)(20)				x	x
galvanic separation					
to the bus (screen connected through)	1KV	1KV	1KV	1,5KV	1,5KV
mounting					
wall monuting (with opt. wall mounting-set)	x	x	x	x	
upgrading with					
CheapConn+cable	x	x	x	x	
supports					
WIN 98	x	x(3)		x	x
WIN 98 SE	x	x	x	x	x
WIN ME	x	x	x	x	x
WIN NT	x	x(5)	x(5)	x	
WIN 2000	x	x	x	x	x
WIN XP Home (4)	x	x	x	x	x
WIN XP Professional	x	x	x	x	x
Vista(32bit)	x	x	x	x	x

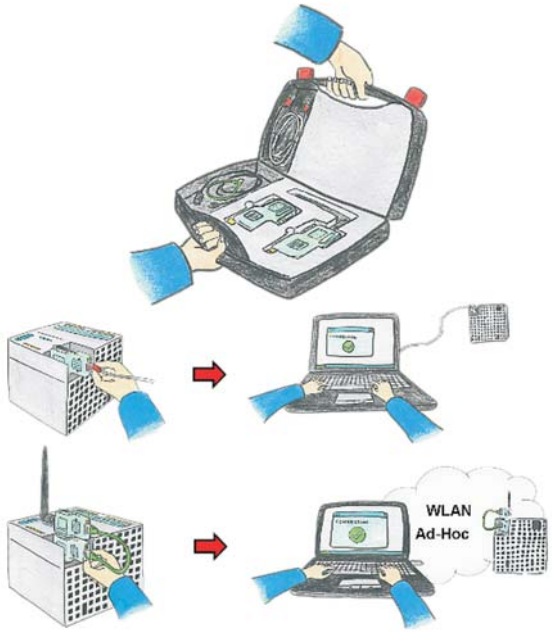
(1) just with USB-cable plug <-> plug, type A <-> A, item number: 9352.1
(3) only serial communication
(4) Siemens Step7 V5.2 and higher dont run with this operationing system
(5) USB-communication is only possible with the special driver for Win NT
(6) USB 2.0 is backward compatible to 1.1
(7) Cable is designed for direct connection to PC network card socket. It can also be a hub / switch with uplink port or operated at a hub / switch with automatic detection of assignement and adaptation
(8) only in combination with the MPI-Speed-driver („continously-active“)
(9) Siemens Step7 supports these baud rates only with the MPI-Speed-Utility
(10) Update directly with PC or via Tele-Network if the cable is connected to a device of the Tele-Network-family (Tele-Link, T ele-Book or Tele-Professional)
(11) only in the mode: MultiMaster-Mode
(12) up to a maximum baud rate of 187.5 KBit/s
(13) In this transmission, the baud rate is irrelevant, because it communicates via a virtual COM-port.
(14) with the use of the TS-adapter / item number: 9350.TS
(15) Update directly with PC via virtual COM-Port
(18) Operation requires Step 7 with additional software Tele-Service (TS) from Siemens
(19) only at PPI-communication possible
(20) option with costs

S7-WLAN-SET

Service-suitcase for couppling to a S7-PLC over LAN/WLAN incl. all accessories

- practical and stable plastic case with two airtight closures
- includes all what is needed for S7-communication
- connects comfortable PC with PLC via LAN or WLAN (also Ad-Hoc mode)
- scobe of delivery: S7-LAN module, S7-WLAN-Bridge, Cross-Over-cable, USB-cable and short patch-cable
- also for S7-1200 usable

Universally to the S7-PLC-Control



You have to build up a connection to your S7-PLC and preferentially over LAN/WLAN? No problem, you drive to your plant and take with the S7-WLAN-SET. The set includes all you need to couple. You plug the S7-LAN an your S7-PLC, on top of this the configured S7-WLAN-Bridge. Connect both devices with the delivered short patch-cable and the connection to your notebook in the Ad-Hoc-mode will be OK. Of course, you can also use an WLAN-router, if there would be one existant. Or you connect the S7-LAN with the delivered Cross-Over-cable direct with the PC and you will be also online on the PLC. No matter which way you ever will use, with the S7-WLAN-SET you will be prepared for everything.

article:		
Art. ID.	**name**	**price**
9352-S7-WLAN-SET	**S7-WLAN-SET** Service-suitcase for couppling to a S7-PLC over WLAN consisting of: S7-LAN, S7-WLAN-Bridge, Cross-Over-cable , USB-cable, short Patch-cable	

WLAN-Klemme

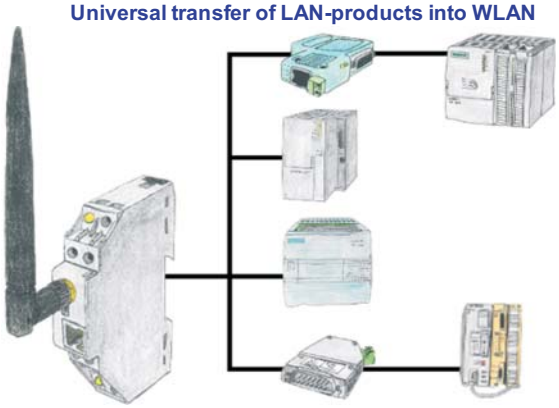
Connecting your ethernet-participants direct to your WLAN-network

- Suitable for DIN-rail EN 60715 TH35 and wall-mounting
- For S7-1200, S5-LAN++, S7-LAN and Ethernet-CPs usable
- Connecting a network subscriber via WLAN to an Access Point
- Ad-hoc capable for direct programming with the laptop
- Auto-negotiation of the RJ45-Ethernet jack
- Power supply 24V DC over spring clip; while configuration from USB of the connected PC
- Spring clips for conductors with max. 2.5 mm² and eyelets, terminals and tabs
- simply parameterizing via USB
- CE / EMC compliant design
- Used plastic complies UL 94 V-0

Technical Specifications:

Supply voltage:	24V/DC +/- 20% 5V/DC USB
Power consumption:	1,2 watt
Display:	2 status-LEDs
Handling/Configuration:	S7BridgeConfig-software
Interfaces:	**to the PLC:** 10/100BaseTX RJ45-ethernetplug **to the PD/PC:** WLAN connection (802.11 b/g) Mini-USB-B-jack (for Configuration)
Operating temperature:	5 - 55°C
Case:	plastic case UL 94 V-0
Dimensions:	90 x 59 x 18 mm

Universal transfer of LAN-products into WLAN



You have a variety of LAN products and would like to communicate to them via WLAN? No problem, with the WLAN-Klemme you will be able to contact all these products.

article:		
Art. ID.	**name**	**price**
9352-WLAN-Klemme	**WLAN-Klemme** connection of a network client via WLAN to an Access-Point or in AdHoc-mode	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9352-S7-WLAN-Bridge-ANT	**Magnetic base antenna for S7-WLAN-Bridge, WLAN-Klemme** cable length: 3m	
9636-TCPIP.02M	**Patch-cable 0.25m, Cat5e, shielded** RJ45 plug <=> RJ45 plug, 1:1	

S7-WLAN-Bridge

Wireless programming with a S7-LAN directly at the laptop or in the corporate network

- Connecting a network subscriber via WLAN to an Access Point
- To link to a S7-PLC a S7-LAN is a needed
- Ad-hoc capable for direct programming with the laptop
- Auto-negotiation of the RJ45-Ethernet jack
- Power supply from the S7 controller or external; while configuration from USB of the connected PC
- with full PG - diagnostic socket
- simply parameterizing via USB
- CE / EMC compliant design
- also for S7-1200 usable

Technical Specifications:

Requirement:	programming tool from LAN to MPI/Profibus like S7-LAN or MPI-LAN is required!
Supply voltage:	24V/DC +/- 20% 5V/DC USB
Power consumption:	1,2 watt
Display:	2 status-LEDs
Handling/Configuration:	S7BridgeConfig-software
Interfaces:	**to the S7-LAN:** 10/100BaseTX RJ45-ethernetplug **to the PD/PC:** 9pin PD/diagnosis jack WLAN connection (802.11 b/g) Mini-USB-B-jack (for Configuration)
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	65 x 43 x 17 mm

Without LAN-cable round of the PLC

Your're right in the middle of your production line and and should move around the machine and simultaneously observe / manage. No problem, you parameterize the S7-WLAN-Bridge, connect to the S7-LAN and connect to an access-point or with the ad-hoc-network of your laptop and are ONLINE on the PLC.

article:

Art. ID.	name	price
9352-S7-WLAN-Bridge	**S7-WLAN-Bridge** connection of a network client via WLAN to an Access-Point or in AdHoc-mode	

needed accessories:

Art. ID.	name	price
9352-LANCON	**S7-LAN connector** Ethernetmodule for PPI/MPI/Profibus	

accessories:

Art. ID.	name	price
9352-S7-WLAN-Bridge-ANT	**Magnetic base antenna for S7-WLAN-Bridge, WLAN-Klemme** cable length: 3m	
9636-TCPIP.02M	**Patch-cable 0.25m, Cat5e, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9352.3	**USB-cable plug/plug Type A-B-Mini 3m** USB 1.1 / 2.0 up to 480 MBit	

S7-LAN

smallest ethernet-gateway with PD-socket, multifunctional, 1 adapter for all PPI, MPI and Profibus applications
with ext. 24V-connector

- automatic protocol- and baud rate detection
- firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- applicable with original Siemens programming software by included software

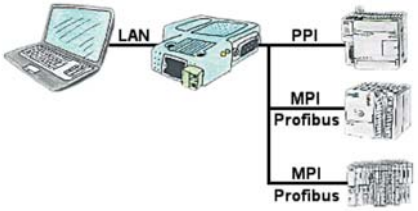
- power supply from the S7-PLC or external
- network configuration free adjustable
- VPN remote maintenance possible / for the maintenance of the PLC via Internet

- with full PD – diagnosis socket
- coupling of two PLC's S7 - S7 / S7 -S5 is possible with the Gateway type

Technical Specifications:

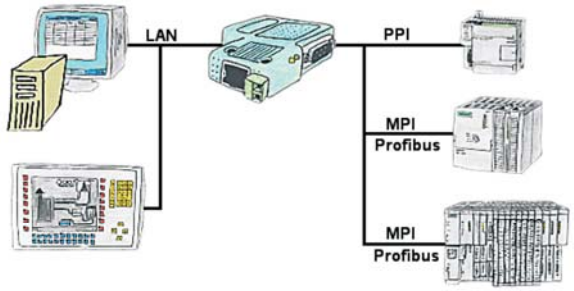
Supply voltage:	24V/DC +/- 20%
Power consumption:	2 watt
Display:	Web-Browser 2 status-LEDs
Handling/Configuration:	Web-Browser Kabelmanager-Software
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** PD/diagnosis jack 10/100BaseTX RJ45-ethernet jack
Galvanic separation:	1500V PPI/MPI/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	65 x 43 x 17 mm

Programming of S7-PLC-devices via LAN



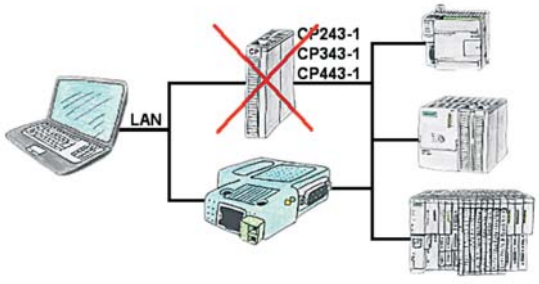
You would like to respond to your S7-PLC-device via LAN but not integrate an Ethernet-CP? No problem, plug the S7-LAN or also the MPI-LAN-cable on the MPI/PPI/Profibus-interface and access via LAN.

Watching of S7-PLC-devices via LAN without Ethernet-CP



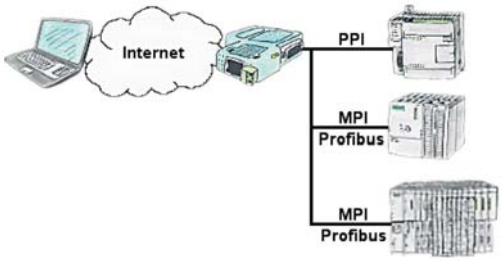
Your panel only has a LAN-socket as PLC-interface? No problem, connect this socket with the S7-LAN or the MPI-LAN-cable and plug it directly on the PPI/MPI/Profibus of the PLC. Then access to the variables and data of the PLC is already available.

S7-CP-replacement (without LAN-CP to the PLC-device)



Do you have a S7-PLC-device without CP243-1, CP343-1 or CP443-1 and would like to connect via LAN? Then plug the S7-LAN on the PLC-device and your access via RFC1006 is ready for use.

Remote maintenance of your S7-PLC-device via LAN / Internet

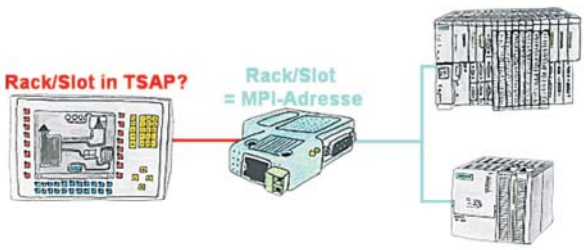


You have access to a on-site network and your PLC-device has no LAN-connection? No problem, plug the S7-LAN on the PLC-device and you will have immediate access to the PLC from afar.

Without LAN-cable round of the PLC

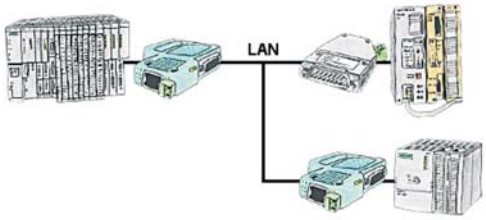
Your're right in the middle of your production line and and should move around the machine and simultaneously observe / manage. No problem, you parameterize the S7-WLAN-Bridge, connect to the S7-LAN and connect to an access-point or with the ad-hoc-network of your laptop and are ONLINE on the PLC.

Transformation of Rack/Slot in TSAP to MPI-address



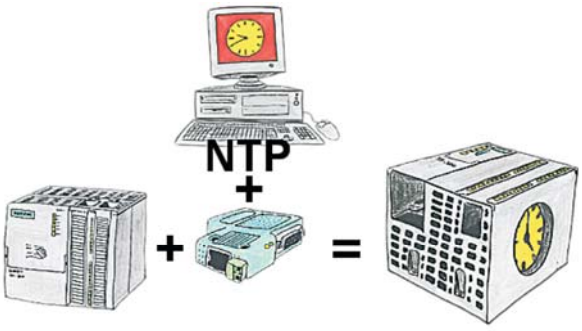
Your panel or visualisationsystem addresses the used PLC with Rack/Slot in TSAP? No problem, activate this mode in the S7-LAN and you will get actual data from the PLC.

PLC coupling (data exchange between PLC-devices)



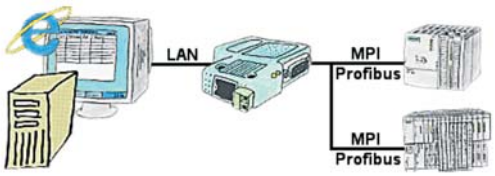
Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, it's sufficient when the stations connect via network (DSL-router).

Actual time for the PLC?



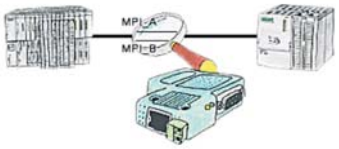
You need in your PLC a actual time? No problem, with the NTP-option the S7-LAN-module get from a NTP-(Time-)Server the actual time and transfers it direct into the configured PLC or for processing in a DB.

Variable-chart without Step7-programming package



You would like to give your customer the opportunity to read current numbers of the manufacturing Online, without installing a visualisation or even the STEP7-package? Then a S7-LAN with the option „Status Variable" is needed, and your customer can take a look at these password protected data on a site of the integrated webserver.

Malfunctions on the Bus although everything is (apparently) connected properly?



The S7-LAN can also be used for controlling/checking the MPI/Profibus. It will be plugged on the Bus so that you can take a look at the status of the busses via software on PC, for example the numbers of parity errors.

article:		
Art. ID.	**name**	**price**
9352-LANCON	**S7-LAN connector** Ethernetmodule for PPI/MPI/Profibus	

variant:		
Art. ID.	**name**	**price**
9352-GATE	**S7-Gateway** PLC-PLC coupling	

options:		
Art. ID.	**name**	**price**
9352.NTP-Server	**Option "NTP-Server for S7-PLC"** transfer of time from NTP-server into S7-PLC	
9352-VAST	**Option "Variable Control"** variables view in web browser	
9352-WATCHDOG	**Option Watchdog** controlling of the connected MPI-/Profibus with webbrowser or over port	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9352-S7-WLAN-Bridge	**S7-WLAN-Bridge** connection of a network client via WLAN to an Access-Point or in AdHoc-mode	
9352-24	**Power connector 2pins small** cable coupling by screw-connector (small)	

MPI/PPI

S7-Interface cable for PPI, MPI, TS, HMI <=> RS232 applications

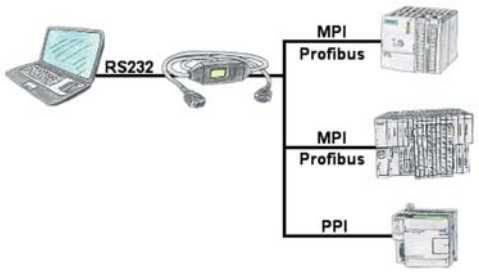
- automatic protocol- and baud rate detection
- firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- applicable with original Siemens programming software by included software

- integrated display for output of diagnostic informations
- applicable as TS/HMI adapter
- double-sided connected cable
- short plug to PLC

Technical Specifications:

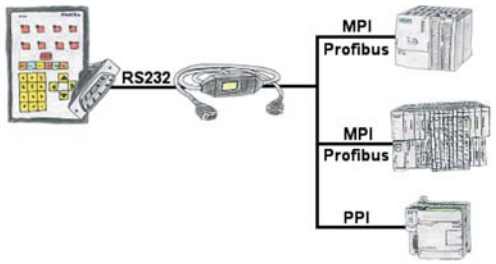
Supply voltage:	24V/DC +/- 20%
Power consumption:	2 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software
Interfaces:	**to the PLC:** PPI/MPI-bus interface: 9,6 KBd - 187,5 KBd **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd
Galvanic separation:	1000V PPI/MPI-bus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

Serial programming of the S7- PLC



With the MPI/PPI-cable you have the ability to access a connected SPC-PLC S7-200 (PPI 9600 Baud and 19200 Baud) as well as S7-300/400 (MPI/Profbus 9600 Baud up to 187500 Baud) via PC serial with up to 115200 Baud for reading respectively writing of data.

Visualisation of your S7- PLC via COM-Port



Your panel provides a serial port and no MPI/Profibus for connecting a S7-PLC. Connect the MPI/PPI-cable with it and you're Online with your panel.

Remote maintenance with TS-software without original TS-adaptor

You have to reach urgend your PLC via remote maintenance and have no TS-adaptor in your company? No problem, configure with the MPI-Kabelmanager your S7-interface-cable MPI/PPI-Kabel the mode "TS" for "remote maintenance", connect this cable with the TS-Adapter (article number 9350-TS) with a standard modem and send it all to your client. Now you will be able to start the connection with your TS-sofware and solve the problem. And this all without buying a original TS-adapter.

article:		
Art. ID.	**name**	**price**
9350	**MPI+PPI+HMI+TS - Interfacecable 3m** with LCD-display	
9350.05M	**MPI+PPI+HMI+TS - Interfacecable 5m** with LCD-display	
9350.10M	**MPI+PPI+HMI+TS - Interfacecable 10m** with LCD-display	
9350.15M	**MPI+PPI+HMI+TS - Interfacecable 15m** with LCD-display	

variant:		
Art. ID.	**name**	**price**
9350-M	**MPI+PPI-Interfacecable TS-version 2m** 9-pin modem plug	

accessories:		
Art. ID.	**name**	**price**
9350-TS	**Adapter cable 9pins to modem** for TS-function	
9350-9-CHP	**CheapConn Busconnector** for PROFIBUS	
9391-HH	**DIN-rail-holder for MPI/PPI** quick and easy assembling on the cap rail	
9352-104	**MPI-PC104-card 1 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	
9352-104-2	**MPI-PC104-card 2 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	
9350-4	**Power-adapter for MPI-cable** with power-supply unit 100-240VAC	
9350-4-ON	**Power-adapter for MPI-cable** without power-supply unit	
9350-9-CHP-CC	**Option CheapConn for MPI** 9350-9-CHP+9350-9-CHP-K already mounted	
9361-7	**T-Connector to PPI / MPI-Bus** doubling of PPI/MPI/Profibus-port without bus connector	
9350-9-CHP-K	**Connecting cable MPIx to CheapConn** 9-pins 1 : 1 plated-through with shield	
9350-WAND	**Wall-mounting** for MPI/PPI + MPI-II + MPI-USB	

MPI-II

S7-Interface cable for PPI, MPI, Profibus, TS, HMI <=> USB, RS232 applications

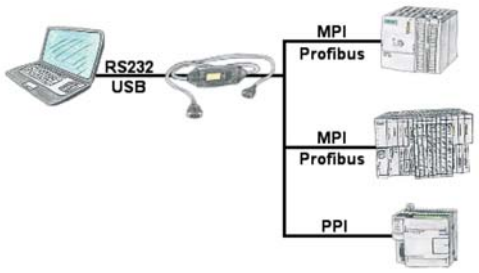
- automatic protocol- and baud rate detection
- firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- applicable with original Siemens programming software by included software

- integrated display for output of diagnostic informations
- power supply from the S7-PLC or external
- applicable as TS/HMI adapter
- USB-connector
- double-sided connected cable
- short plug to PLC

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	2,5 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software keypad on the back
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd USB 1.1 for cable type A <-> A
Galvanic separation:	1000V PPI/MPI/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

Programming of the S7- PLC via RS232 and USB

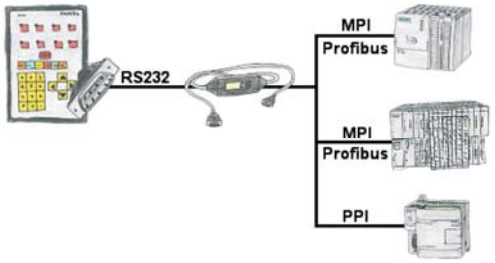


With the MPI-II-cable you have the ability to access a connected SPC-PLC S7-200 (PPI 9600 Baud, 19200 Baud and also 187500 Baud) as well as S7-300/400 (MPI/Profbus 9600 Baud up to 12 MBaud) via PC serial with up to 115200 Baud or via USB-port for reading respectively writing of data.

Remote maintenance with TS-software without original TS-adaptor

You have to reach urgend your PLC via remote maintenance and have no TS-adaptor in your company? No problem, configure with the MPI-Kabelmanager your S7-interface-cable MPI-II-Kabel the mode "TS" for "remote maintenance", connect this cable with the TS-Adapter (article number 9350-TS) with a standard modem and send it all to your client. Now you will be able to start the connection with your TS-sofware and solve the problem. And this all without buying a original TS-adapter.

Visualisation of your S7-PLC via COM-Port



Your panel provides a serial port and no MPI/Profibus for connecting a S7-PLC. Connect the MPI-II-cable with it and you're Online with your panel.

Coupling of S5-PLC with S7-PLC via PD-interfaces

You still have an installation in your machinery which is equiped with a S5-PLC and the modification to S7 isn't profitable, but the central control needs the manufacturing data? No problem, connect the S5-PLC via the S5toMPI to your central control and the S5toMPI ensures that the data will be accordingly interchanged. Both sides can be active, but also only one. Both is configurable.

article:

Art. ID.	name	price
9352	**MPI-II - Interfacecable 3m** PPI/MPI/Profibus up to 12Mbit/s	
9352.05M	**MPI-II - Interfacecable 5m** PPI/MPI/Profibus up to 12Mbit/s	
9352.10M	**MPI-II - Interfacecable 10m** PPI/MPI/Profibus up to 12Mbit/s	
9352.15M	**MPI-II - Interfacecable 15m** PPI/MPI/Profibus up to 12Mbit/s	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9350-TS	**Adapter cable 9pins to modem** for TS-function	
9350-9-CHP	**CheapConn Busconnector** for PROFIBUS	
9391-HH	**DIN-rail-holder for MPI/PPI** quick and easy assembling on the cap rail	
9352-104	**MPI-PC104-card 1 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	
9352-104-2	**MPI-PC104-card 2 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	
9350-9-CHP-CC	**Option CheapConn for MPI** 9350-9-CHP+9350-9-CHP-K already mounted	
9352-24	**Power connector 2pins small** cable coupling by screw-connector (small)	
9361-7	**T-Connector to PPI / MPI-Bus** doubling of PPI/MPI/Profibus-port without bus connector	
9352.1	**USB-cable plug/plug Type A-A 3m** USB 1.1 / 2.0 up to 480 MBit	
9350-9-CHP-K	**Connecting cable MPIx to CheapConn** 9-pins 1 : 1 plated-through with shield	
9350-WAND	**Wall-mounting** for MPI/PPI + MPI-II + MPI-USB	

S7-USB

smallest USB-gateway for PPI, MPI, Profibus, HMI <=> USB applications

- automatic protocol- and baud rate detection
- firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- applicable with original Siemens programming software by included software

- with full PD – diagnosis socket
- power supply from the USB-jack

Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	2 watt
Display:	2 status-LEDs
Handling/Configuration:	Kabelmanager-Software
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** PD/diagnosis jack Mini-USB-B-Buchse
Galvanic separation:	1000V PPI/MPI/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	65 x 43 x 17 mm

Access to MPI/Profibus without power supply

Your’re right in the middle of your production line and are standing in front of a passive assembly just like a switcher or a ET200, in that case you won’t be able to go Online without an external power supply of your programming adapter, unless you’re using the S7USB. This module is supplied completely from the USB-interface.

article:

Art. ID.	name	price
9352-S7-USB	**S7-USB** universal USB-module on PPI/MPI/Profibus 9,6 Kbit/s up to 12MBit/s	

accessories:

Art. ID.	name	price
9352.3	**USB-cable plug/plug Type A-B-Mini 3m** USB 1.1 / 2.0 up to 480 MBit	

MPI-USB

S7-Interface cable for PPI, MPI, Profibus, HMI <=> USB applications

- automatic protocol- and baud rate detection
- firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- applicable with original Siemens programming software by included software

- power-supply from USB
- double-sided connected cable
- short plug to PLC

Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	2 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software keypad on the back
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** USB 1.1 cable type A
Galvanic separation:	1000V PPI/MPI/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

Access to MPI/Profibus without power supply

Your're right in the middle of your production line and are standing in front of a passive assembly just like a switcher or a ET200, in that case you won't be able to go Online without an external power supply of your programming adapter, unless you're using the MPI-USB. This cable is supplied completely from the USB-interface.

article:

Art. ID.	name	price
9352-USB	**MPI-USB-cable 3m** PPI/MPI/Profibus up to 12Mbit/s	
9352-USB.05M	**MPI-USB-cable 5m** PPI/MPI/Profibus up to 12Mbit/s	

accessories:

Art. ID.	name	price
9350-9-CHP	**CheapConn Busconnector** for PROFIBUS	
9391-HH	**DIN-rail-holder for MPI/PPI** quick and easy assembling on the cap rail	
9352-104	**MPI-PC104-card 1 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	
9352-104-2	**MPI-PC104-card 2 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	
9350-9-CHP-CC	**Option CheapConn for MPI** 9350-9-CHP+9350-9-CHP-K already mounted	
9361-7	**T-Connector to PPI / MPI-Bus** doubling of PPI/MPI/Profibus-port without bus connector	
9350-9-CHP-K	**Connecting cable MPIx to CheapConn** 9-pins 1 : 1 plated-through with shield	
9350-WAND	**Wall-mounting** for MPI/PPI + MPI-II + MPI-USB	

MPI-LAN

S7-Interface cable for PPI, MPI, Profibus, HMI <=> LAN applications

- automatic protocol- and baud rate detection
- firmwareupdate via internet for free
- PPI - adapter for S7 - 200
- MPI - adapter for S7 - 300 + 400
- CE/EMC compliant construction
- applicable with original Siemens programming software by included software

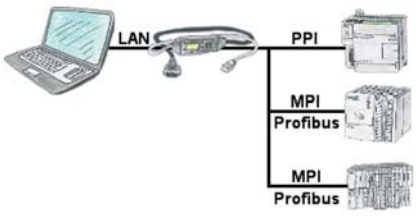
- power supply from the S7-PLC or external
- network configuration free adjustable
- VPN remote maintenance possible / for the maintenance of the PLC via Internet

- integrated display for output of diagnostic informations
- double-sided connected cable
- short plug to PLC

Technical Specifications:

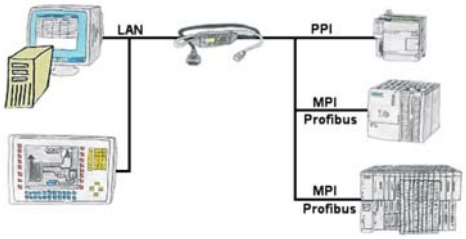
Supply voltage:	24V/DC +/- 20%
Power consumption:	2,5 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software keypad on the back
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** 10/100MBit ethernet interface
Galvanic separation:	1500V PPI/MPI/Profibus to the PC
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

Programming of S7-PLCs via LAN



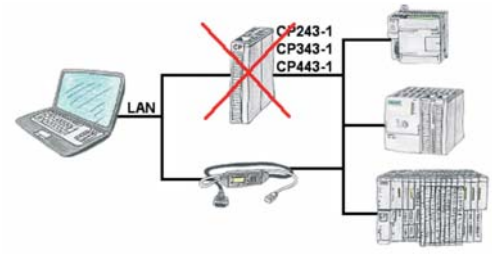
You would like to respond to your S7-PLC-device via LAN but not integrate an Ethernet-CP? No problem, plug the S7-LAN or also the MPI-LAN-cable on the MPI/PPI/Profibus-interface and access via LAN.

Watching of S7-PLC-devices via LAN without Ethernet-CP



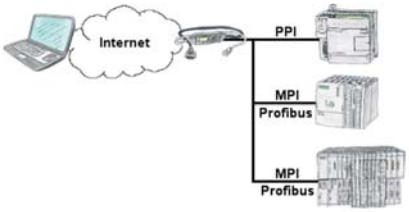
Your panel only has a LAN-socket as PLC-interface? No problem, connect this socket with the S7-LAN or the MPI-LAN-cable and plug it directly on the PPI/MPI/Profibus of the PLC. Then access to the variables and data of the PLC is already available.

S7-CP-replacement (without LAN-CP to the PLC-device)



Do you have a S7-PLC-device without CP243-1, CP343-1 or CP443-1 and would like to connect via LAN? Then plug the S7-LAN on the PLC-device and your access via RFC1006 is ready for use.

Remote maintenance / telecontrol of PLC-devices via LAN / internet



You have access to a on-site network and your PLC-device has no LAN-connection? No problem, plug the S7-LAN on the PLC-device and you will have immediate access to the PLC from afar.

Without LAN-cable round of the PLC

Your’re right in the middle of your production line and and should move around the machine and simultaneously observe / manage. No problem, you parameterize the S7-WLAN-Bridge, connect to the MPI-LAN and connect to an access-point or with the ad-hoc-network of your laptop and are ONLINE on the PLC.

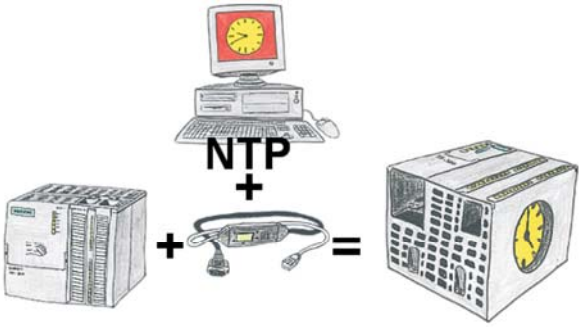
Transformation of Rack/Slot in TSAP to MPI-address

Your panel or visualisationsystem addresses the used PLC with Rack/Slot in TSAP? No problem, activate this mode in the MPI-LAN-cable and you will get actual data from the PLC.

PLC-coupling (data exchange between PLC-devices)

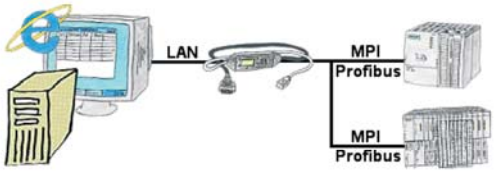
Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Thereto no dedicated line is required, it's sufficient when the stations connect via network (DSL-router).

Actual time for the PLC?



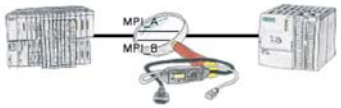
You need in your PLC a actual time? No problem, with the NTP-option the MPI-LAN-cable get from a NTP-(Time-)Server the actual time and transfers it direct into the configured PLC or for processing in a DB.

Variable-chart without Step7-programming package



You would like to give your customer the opportunity to read current numbers of the manufacturing Online, without installing a visualisation or even the STEP7-package? Then a S7-LAN with the option „Status Variable" is needed, and your customer can take a look at these password protected data on a site of the integrated webserver.

Malfunctions on the Bus although everything is (apparently) connected properly?



The S7-LAN can also be used for controlling/checking the MPI/Profibus. It will be plugged on the Bus so that you can take a look at the status of the busses via software on PC, for example the numbers of parity errors.

article:

Art. ID.	name	price
9352-LAN	**MPI-LAN-cable 3m** PPI/MPI/Profibus up to 12Mbit/s	

options:

Art. ID.	name	price
9352.NTP-Server	**Option "NTP-Server for S7-PLC"** transfer of time from NTP-server into S7-PLC	
9352-VAST	**Option "Variable Control"** variables view in web browser	
9352-WATCHDOG	**Option Watchdog** controlling of the connected MPI-/Profibus with webbrowser or over port	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9350-9-CHP	**CheapConn Busconnector** for PROFIBUS	
9391-HH	**DIN-rail-holder for MPI/PPI** quick and easy assembling on the cap rail	
9352-104	**MPI-PC104-card 1 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	
9352-104-2	**MPI-PC104-card 2 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	
9350-9-CHP-CC	**Option CheapConn for MPI** 9350-9-CHP+9350-9-CHP-K already mounted	
9352-24	**Power connector 2pins small** cable coupling by screw-connector (small)	
9361-7	**T-Connector to PPI / MPI-Bus** doubling of PPI/MPI/Profibus-port without bus connector	
9350-9-CHP-K	**Connecting cable MPIx to CheapConn** 9-pins 1 : 1 plated-through with shield	
9350-WAND	**Wall-mounting** for MPI/PPI + MPI-II + MPI-USB	

S5 - interface

With each interface of your PC to the S5-PLC

- multifunctional, several functions in one product
- well-priced alternative to high-priced original products

application table:

	PG-UNI + PG-UNI-II	S5-LAN++	PG-USB	PG-COM	PG-ISO-SET
device type					
S5-90U	x	+ext. 24V	x	x	x
S5-95U	x	+ext. 24V	x	x	x
S5-100U	x	+ext. 24V(2)	x	x	x
S5-115U	at 944 + 9359-8	at 944 + 9359-8 + ext. 24V (4)	x	x	x
S5-135U	x	x	x	x	x
S5-155U	x	x	x	x	x
S5-AG110S	+9359-5-150 + 9359-4	+9359-5-150 + 9359-4 + ext. 24V (3)	+9359-5-150-USB		+9359-5-150 + 9359-4(1)
S5-AG130W/B	+9359-5-150 + 9359-4	+9359-5-150 + 9359-4 + ext. 24V (3)	+9359-5-150-USB		+9359-5-150 + 9359-4(1)
S5-AG150A/K/S/U	+9359-5-150 + 9359-4	+9359-5-150 + 9359-4 + ext. 24V (3)	+9359-5-150-USB		+9359-5-150 + 9359-4(1)
CP-143	x		x		x
CP-521	+CP521 adapter				+CP521 adapter(1)
CP-523	+CP523 adapter				+CP523 adapter(1)
CP-525	+9359-5		+9359-USB		+9359-5(1)
CP-526	x		x		x
CP-527	x		x		x
CP-528	x		x		x
CP-544	x		x		x
CP-5430	x		x		x
CP-5431	x				
IP-252	x		x		x
IP-247	x		x		x
IP-252	x		x		x
IP-266	+9359-4		x		+9359-4(1)
WF-470	+9359-4 + 9359-5-WF470		+9359-5-WF470-USB		+9359-5-WF470 + 9359-4(1)
SIN-805	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
SIN-820	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
SIN-840	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
SIN-850	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
SIN-880	+9359-6	+9359-6 + ext. 24V(5)	+9359-6-USB		+9359-6(1)
max. prolongation:	300m (UNI-extension)	300m (S5-LAN-extension) +ext. 24V	100m (PG-USB-extension)		300m (UNI-extension)

(1) ISO adapter can not be used because the required supply voltage on the PG interface of the module is not present.
(2) At the CPU 6ES5 102-8MA02 Release 3 is a PG-ISO-Adapter or Netz-Adapter additional required.
(3) With S5-LAN++ HW V2.3 the "Netz-Adapter" is no more needed, this version has included current-sources.
(4) With S5-LAN++ HW V2.3 no accessories are needed, this version has included current-sources.
(5) With S5-LAN++ HW V2.3 a Sinum-Adapter with special pinning is needed.

S5-LAN++

Industrial Ethernet - TCP/IP for all SIMATIC-S5 via the programming-interface

- fastest installation to the network of every SIMATIC - S5
- reading and writing of S5-data (E,A,M,DB,Z,T) via TCP/IP
- ideal for process-visualisation
- programming with STEP 5 via Ethernet
- simultaneous programming and visualisation possible (integrated multiplexer function)
- power supply from the S5-PLC or external
- disclosed TCP/IP-protocol
- DHCP / Auto-IP supported
- timing-equitable communication with the S5-PLC via integrated firmware
- driver-DLL for Windows available, EXCEL and WORD can read/write S5-data
- compatible with VIPA-S5-TCP/IP driver
- direct operation with WinCC via TCP/IP driver S5 Layer4 possible
- with WinCC Flexible (e.g. MP377, TP177B) via S7-TCP/IP to the Simatic S5 (CP-343-1 compatible)
- data exchange between S5 – S5 and S5 - S7 via TCP/IP
- RK 512 and TCP/IP H1-ISO-On-TCP RFC1006 (CP1430 TCP) supported
- versions: 3964R-LAN, ASCII-LAN, PG-LAN, as RS232-version and for the MUX757

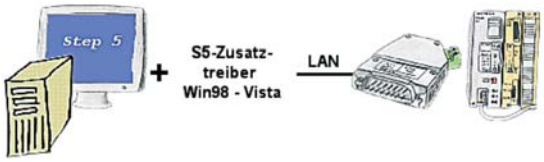
Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	2 watt
Display:	status-LED
Handling/Configuration:	reset-switch-key (factory setting) S5-LAN Manager
Interfaces:	**to the PLC:** TTY/20mA current loop (S5-LAN passiv, PLC aktiv) **to the PD/PC:** 10/100BaseTX RJ45-ethernet jack
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	42 x 15 x 65 mm

Programming of S5-PLC's via LAN

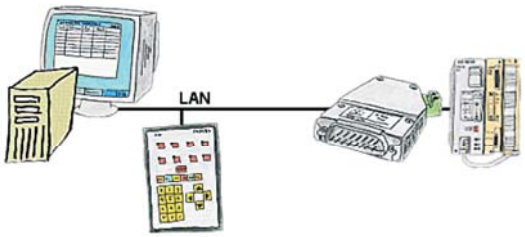
You would like to respond to your S5-PLC via LAN, but not integrate an Ethernet-CP? No problem, plug the S5-LAN++ on the PD-interface and access via LAN.

Communication with Win98 – XP/Vista via LAN to S5-PLC



You still have a PC with Win98 and a MS-DOS-based Step5-package and would like to go Online on your S5-PLC via LAN? No problem, the provided virtual Com-Port PLCVCom emulates a COM-port on your PC with which you go Online. Even your MS-DOS-based Step5-software on this WIN98-PC can use this virtual Com-Port. With a patchtool for the Siemens Step5-software, which is provided as well, nothing else stands in your way to communicate via LAN.

Watching of S5-PLC's via LAN without Ethernet-CP



Your panel only has a LAN-socket as PLC-interface, no problem. Connect this socket with the S5-LAN++ and plug it directly on the PD-interface of the PLC. Then access to the variables and data of the PLC is already available.

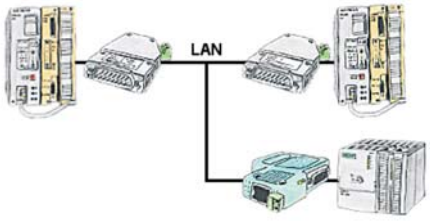
Watching of S5- PLC's with panel for S7-PLC

Your panel only has a LAN-socket as PLC-interface and supports only S7-RFC1006, no problem. Connect this socket with the S5-LAN++ and plug it directly on the PD-interface of the PLC. The S5-LAN++ performs adverse your panel as a S7-PLC although you receive the data from the S5-PLC. Then access to the variables and data of the S5-PLC is already available.

Remote maintenance of your S5-PLC via LAN / Internet

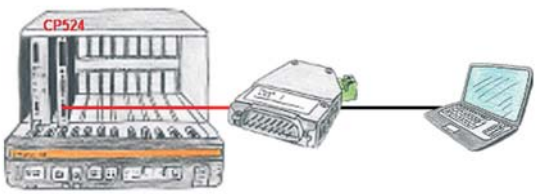
You have access to a on-site network and your PLC has no LAN-connection? No problem, plug the S5-LAN on the PLC and you will have immediate access to the PLC from afar.

PLC coupling (data exchange between PLC's)



Your pumping stations report the water levels of the central control via telephone network. The central office itself can of course transmit commands/messages to the substations as well. Therefore no dedicated line is required, it's sufficient when the stations connect via network (DSL-router).

Visualisation via 3964R-interface without using the protocol itself



Your visualisation-software does not support a 3964R-protocol, but you have to apply this package? No problem, connect the 3964R-LAN to your CP and activate the RFC1006-emulation in the module. Now your software gets the data from the module via RFC1006, which in turn communicates with the assembly via 3964R.

Extension of a 3964R-line via LAN

There is a control with CP524 in your outstation and the communication partner of the CP has moved locally. Connecting path is a LAN-network. So each of both participants gets a 3964R-LAN and after input of the partner's IP-address a coupling via LAN will be configured.

article:		
Art. ID.	**name**	**price**
9359-LAN	**S5-LAN++** Industrial Ethernet <=> S5 PD-interface (TTY)	

variant:		
Art. ID.	**name**	**price**
9359-RK	**S5-3964R-LAN** Industrial Ethernet <=> 3964R-protocol (TTY)	
9359-RK-RS	**S5-3964R-LAN RS232-version** Industrial Ethernet <=> 3964R-protocol, inclusive adapter cable (15pin female <=> 9pin male)	
9359-ASCII	**S5-ASCII-LAN** sends ASCII-data via Industrial Ethernet	
9359-LAN-RS	**S5-LAN++ RS232-version** Industrial Ethernet <=> S5 PD-interface (RS232), inclusive adapter cable (15pin female <=> 9pin male)	
9359-LAN-M	**S5-LAN-MUX757** S5-LAN with path selection (MUX757)	
9359-PG-LAN	**S5-PG-LAN** RS232-complement to S5-LAN++ (TTY/RS232)	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9359-5-150	**AG-150-adapter** for PG-UNI + PG-UNI-II-cable to AG-150	
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	
9359-4	**NETZ-adapter** for PG-UNI-cable /UNI-II-cable/S5-LAN	
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9359-8	**PG-ISO-adapter** 1000V galv. seperation	
9359-6	**SINUM-adapter** for PG-UNI + PG-UNI-II-cable to SINUMERIK	
9352-24	**Power connector 2pins small** cable coupling by screw-connector (small)	

PG-USB

Coupling of PC (USB-port type A) with the 15pin X4/X5 PD-port of the PLC

- complete electronics in the plug housing
- slide lock for firm grip on the PLC

- power supply from the USB-port
- prolongable up to 100m on the PLC side
- runs with the standard S5-software despite virtual com-port (driver for Win2000, XP, Vista and Windows7 will be provided)

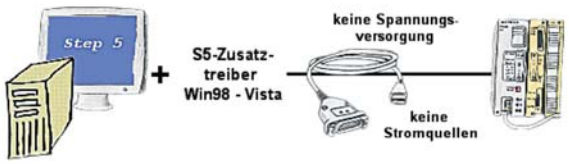
Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	0,3 watt
Display:	2 status-LEDs for RXT/TXD
Interfaces:	**to the PLC:** TTY/20mA current loop (PG-USB aktiv, PLC passiv) **to the PD/PC:** USB 1.1 cable type A
Operating temperature:	5 - 55°C
Case:	metal case
Dimensions:	50 x 40 x 17 mm

Active on every S5-PLC

You have to program an assembly which does not provide neither power sources nor voltages at your PD-interface, such as the AS511-card for example? No problem, the PG-USB-cable supplies itself completely from the USB-port and so it's active adverse the communication partner. He uses own power sources for the communication.

Communication with Win98 – XP/Vista via USB to S5-PLC



You still have a PC with Win98 and Step5-package and would like to go Online on your S5-PLC via USB? No problem, the provided virtual Com-Port PLCVCom emulates a COM-port on your PC with which you go Online. With a patchtool for the Siemens Step5-software, which is provided as well, nothing else stands in your way to communicate via LAN.

article:

Art. ID.	name	price
9359-1	**PG-USB-cable 3m**	
9359-1.05M	**PG-USB-cable 5m**	

accessories:

Art. ID.	name	price
9359-5-150-USB	**PG-USB AG-150-adapter** for PG-USB-cable to AG-150	
9359-5-USB	**PG-USB CP-525-adapter** for PG-USB-cable to CP-525	
9359-5K-USB	**PG-USB CP-525-K-adapter** for PG-USB-cable to CP-525-communication	
9359-6-USB	**PG-USB SINUM-adapter** for PG-USB-cable to SINUMERIK	
9359-5-WF470-USB	**PG-USB WF-470-adapter** for PG-USB-cable to WF470	
9359-7-USB	**PG-USB-lengthening set** complete mounting set	

S5toMPI

Connects the S5-PLC with a S7-PLC

- bi-directional exchange of data blocks
- automatic protocol- and baud rate detection
- power supply from the S7-PLC or external
- galvanic separation 1000V
- double-sided connected cable
- short plug to PLC
- firmwareupdate via internet for free
- easy handling without programming the S5/S7
- incl. 9 pol. adapter for connecting a S5-interface cable
- optional is a PG-COM or PG-UNI cable necessary

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	2,5 watt
Display:	double lined LCD-display
Handling/Configuration:	Kabelmanager-Software keypad on the back
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd USB 1.1 for cable type A <-> A
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	146 x 41 x 29 mm

Coupling of S5-PLC with S7-PLC via PD-interfaces

You still have an installation in your machinery which is equiped with a S5-PLC and the modification to S7 isn't profitable, but the central control needs the manufacturing data? No problem, connect the S5-PLC via the S5toMPI to your central control and the S5toMPI ensures that the data will be accordingly interchanged. Both sides can be active, but also only one. Both is configurable.

article:

Art. ID.	name	price
9352-S5-OP	**S5toMPI/Profibus** DB-exchange from S5 to S7 over the PD-ports	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9350-9-CHP	**CheapConn Busconnector** for PROFIBUS	
9391-HH	**DIN-rail-holder for MPI/PPI** quick and easy assembling on the cap rail	
9350-9-CHP-CC	**Option CheapConn for MPI** 9350-9-CHP+9350-9-CHP-K already mounted	
9352-24	**Power connector 2pins small** cable coupling by screw-connector (small)	
9350-9-CHP-K	**Connecting cable MPIx to CheapConn** 9-pins 1 : 1 plated-through with shield	
9350-WAND	**Wall-mounting** for MPI/PPI + MPI-II + MPI-USB	

appropriate interface-cables:

Art. ID.	name	price
9359.10CM	**PG-COM-cable 0.1m special length** PC 9pins COM-port <=> PLC 15pins X4/X5 port	
9359	**PG-COM-cable 3m** PC 9pins COM-port <=> PLC 15pins X4/X5 port	
9359.05M	**PG-COM-cable 5m** PC 9pins COM-port <=> PLC 15pins X4/X5 port	

appropriate interface-cables:		
Art. ID.	**name**	**price**
9359.10M	**PG-COM-cable 10m** PC 9pins COM-port <=> PLC 15pins X4/X5 port	
9359.15M	**PG-COM-cable 15m** PC 9pins COM-port <=> PLC 15pins X4/X5 port	
9359-2	**PG-UNI-II-cable 3m** for PLC's/CP's+ LED + metal case	
9359-2.05M	**PG-UNI-II-cable 5m** for PLC's/CP's+ LED + metal case	
9359-2.10M	**PG-UNI-II-cable 10m** for PLC's/CP's+ LED + metal case	
9359-3.10CM	**PG-UNI-cable 0.1m special length** for PLC's and CP's	
9359-3	**PG-UNI-cable 3m** for PLC's and CP's	
9359-3.05M	**PG-UNI-cable 5m** for PLC's and CP's	
9359-3.10M	**PG-UNI-cable 10m** for PLC's and CP's	

PG-COM

Couples the PC (9 pol. COM-interface) with the 15 pol. X4/X5 interface port of the PLC

- complete electronics in the plug housing
- slide lock for firm grip on the PLC
- supply from the PLC over the 5V DC of the PD-port

Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	0,2 watt
Display:	-
Interfaces:	**to the PLC:** TTY/20mA current loop (PG-COM passiv, PLC aktiv) **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	47 x 40 x 15 mm

Serial communication to the S5-PLC (CPU-assemblies 15pin)

You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-COM-cable is exactly the right product. Connect it to PLC and PC and you're Online.

article:		
Art. ID.	**name**	**price**
9359.10CM	**PG-COM-cable 0.1m special length** PC 9pins COM-port <=> PLC 15pins X4/X5 port	
9359	**PG-COM-cable 3m** PC 9pins COM-port <=> PLC 15pins X4/X5 port	
9359.05M	**PG-COM-cable 5m** PC 9pins COM-port <=> PLC 15pins X4/X5 port	
9359.10M	**PG-COM-cable 10m** PC 9pins COM-port <=> PLC 15pins X4/X5 port	
9359.15M	**PG-COM-cable 15m** PC 9pins COM-port <=> PLC 15pins X4/X5 port	

variant:		
Art. ID.	**name**	**price**
9359-SON	**Additional charge for special wiring** PG-COM/ PG-UNI/ PG-UNI-II	
9390	**Additional charge for special length** for S5-Interface cables per Meter 3,- Euro	
9359.X	**Special length: PG-COM-cable (3m) + 9390** PC 9pins COM-port <=> PLC 15pins X4/X5 port	

PG-UNI

Couples the PC (9 pol. COM-interface) with the 15 pol. X4/X5 interface port of the PLC

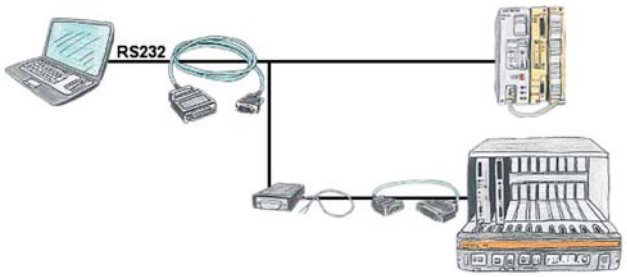
- complete electronics in the plug housing
- slide lock for firm grip on the PLC

- supply from the PLC of 20mA-current sources
- galvanic separation to 1000V with PG-ISO-adapter
- prolongable up to 300 meters on PLC side
- functioned also at many CP's, IP's and Sinumerik-PLC's

Technical Specifications:

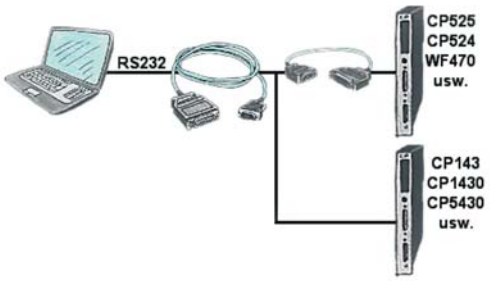
Supply voltage:	from the current sources of the PLC
Power consumption:	0,2 watt
Display:	-
Interfaces:	**to the PLC:** TTY/20mA current loop (PG-COM passiv, PLC aktiv) **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	47 x 40 x 15 mm

Serial communication to the S5-PLC



You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-cable is exactly the right product. Connect it to PLC and PC and you're Online. Even the 25pin interface of the AS511-card is no problem. You need the NETZ-adapter and also the AG-150-adapter and then this control is programmable, too.

Serial communication with CP and more S5-assemblies



You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-cable is exactly the right product. Connect it to a Siemens assembly such as H1-CP (CP1430), WF470 and PC or CP-525 with the CP525-adapter and PC and you're Online.

article:

Art. ID.	name	price
9359-3.10CM	**PG-UNI-cable 0.1m special length** for PLC's and CP's	
9359-3	**PG-UNI-cable 3m** for PLC's and CP's	
9359-3.05M	**PG-UNI-cable 5m** for PLC's and CP's	
9359-3.10M	**PG-UNI-cable 10m** for PLC's and CP's	

variant:

Art. ID.	name	price
9359-SON	**Additional charge for special wiring** PG-COM/ PG-UNI/ PG-UNI-II	
9390	**Additional charge for special length** for S5-Interface cables per Meter 3,- Euro	
9359-3.X	**Special length: PG-UNI-cable (3m) + 9390** for PLC/CP/IP - connection	

accessories:

Art. ID.	name	price
9359-9.M	**Adapter COM 1 : COM2** 25pins (male) - 9pins (female)	
9359-9	**Adapter COM 1 : COM2** 9pins (male) - 25pins (female)	
9359-5-150	**AG-150-adapter** for PG-UNI + PG-UNI-II-cable to AG-150	

accessories:		
Art. ID.	**name**	**price**
9359-5	**CP-525-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525	
9359-5K	**CP-525-K-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	
9359-4	**NETZ-adapter** for PG-UNI-cable /UNI-II-cable/S5-LAN	
9359-8	**PG-ISO-adapter** 1000V galv. seperation	
9359-7	**PG-UNI - lengthening set**	
9359-MAX233	**RS232 / V24 chip** for interfacecable	
9359-6	**SINUM-adapter** for PG-UNI + PG-UNI-II-cable to SINUMERIK	
9359-5-WF470	**WF-470-adapter** for PG-UNI + PG-UNI-II-cable to WF470	
9310	**Additional charge 25-pins PC-plug** special construction of the RS232-side	

PG-UNI II

Couples the PC (9 pol. COM-interface) with the 15 pol. X4/X5 interface port of the PLC

- complete electronics in the plug housing
- slide lock for firm grip on the PLC

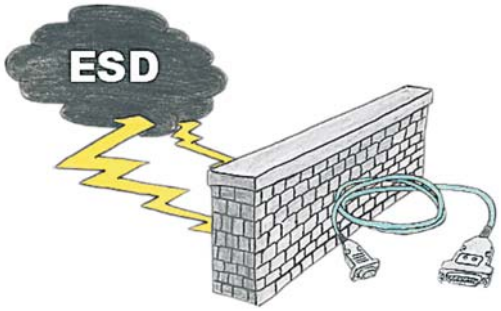
- supply from the PLC of 20mA-current sources
- galvanic separation to 1000V with PG-ISO-adapter
- prolongable up to 300 meters on PLC side
- functioned also at many CP's, IP's and Sinumerik-PLC's

- ESD firm transducer component up to 15kV
- Display of RxD/TxD with LEDs

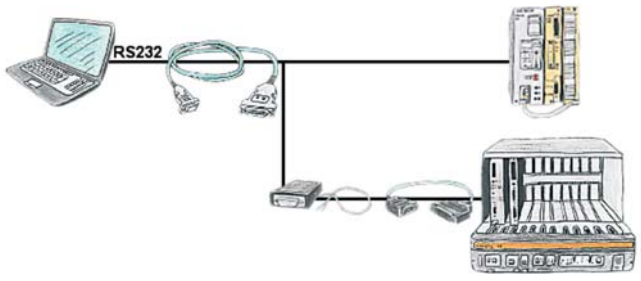
Technical Specifications:

Supply voltage:	from the current sources of the PLC
Power consumption:	0,25 watt
Display:	2 status-LEDs for RXT/TXD
Interfaces:	**to the PLC:** TTY/20mA current loop (PG-COM passiv, PLC aktiv) **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	metal case
Dimensions:	50 x 40 x 17 mm

Insensible communication with the S5-PLC



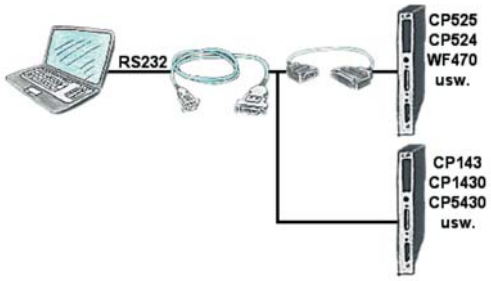
Serial communication to the S5-PLC



You need a communication to a PLC-device, which is stable against influence from out like frequency converter or electrostatic charge? No problem, the PG-UNI-II-cable is the correct interface cable. Its metal D-SUB-cases and esd-resistant components you will have here best protection against this influences.

You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-II-cable is exactly the right product. Connect it to PLC and PC and you're Online. The communication itself is visible by the both included LEDs. Even the 25pin interface of the AS511-card is no problem. You need the NETZ-adapter and also the AG-150-adapter and then this control is programmable, too.

Serial communication with CP and more S5-assemblies



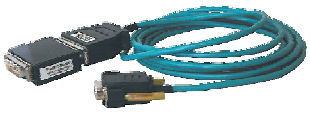
You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-II-cable is exactly the right product. Connect it to a Siemens assembly such as H1-CP (CP1430), WF470 and PC or CP-525 with the CP525-adapter and PC and you're Online.

article:		
Art. ID.	**name**	**price**
9359-2	**PG-UNI-II-cable 3m** for PLC's/CP's+ LED + metal case	
9359-2.05M	**PG-UNI-II-cable 5m** for PLC's/CP's+ LED + metal case	
9359-2.10M	**PG-UNI-II-cable 10m** for PLC's/CP's+ LED + metal case	

variant:		
Art. ID.	**name**	**price**
9359-SON	**Additional charge for special wiring** PG-COM/ PG-UNI/ PG-UNI-II	
9390	**Additional charge for special length** for S5-Interface cables per Meter 3,- Euro	
9359-2.X	**Special length: PG-UNI-II cable (3m) + 9390** for PLC/CP/IP + LED + metal case	

accessories:		
Art. ID.	**name**	**price**
9359-9.M	**Adapter COM 1 : COM2** 25pins (male) - 9pins (female)	
9359-9	**Adapter COM 1 : COM2** 9pins (male) - 25pins (female)	
9359-5-150	**AG-150-adapter** for PG-UNI + PG-UNI-II-cable to AG-150	
9359-5	**CP-525-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525	
9359-5K	**CP-525-K-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	
9359-4	**NETZ-adapter** for PG-UNI-cable /UNI-II-cable/S5-LAN	
9359-8	**PG-ISO-adapter** 1000V galv. seperation	
9359-7-II	**PG-UNI-II - lengthening set**	
9359-MAX233	**RS232 / V24 chip** for interfacecable	
9359-6	**SINUM-adapter** for PG-UNI + PG-UNI-II-cable to SINUMERIK	
9359-5-WF470	**WF-470-adapter** for PG-UNI + PG-UNI-II-cable to WF470	
9310	**Additional charge 25-pins PC-plug** special construction of the RS232-side	

PG-ISO-SET



PLC-communication with 1000V galvanic separation without power supply

- galvanic separation between PD/PC and PLC up to 1kV
- contact-protected plastic housing
- supply of the module from the PLC voltage 5V DC and/or 24V DC
- the SET contains a PG-UNI-Kabel (3m) Art.Nr.9359-3 and a PG-ISO-Adapter Art.Nr.9359-8
- slide lock for firm grip on the PLC

Technical Specifications:

Supply voltage:	5V/DV und/oder 24V/DC
Power consumption:	0,3 watt
Display:	-
Interfaces:	**to the PLC:** TTY/20mA current loop (PG-COM passiv, PLC aktiv) **to the PD/PC:** RS232: 9,6 KBd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	PG-UNI: 47 x 40 x 15 mm / PG-ISO-Adapter: 50 x 45 x 15 mm

Galvanic coupling to the S5-PLC (CPU-assemblies 15pin)

You have to configure a galavanic isolated connection to a S5-PLC? No problem, connect the PG-ISO-set (PG-UNI-cable + PG-ISO-adapter) to the PLC and PC, and now you're Online connected to the PLC. And all without earth-relation between PLC and PC.

article:

Art. ID.	name	price
9359-S	**PG-ISO-SET 3m** Interface cable set with galvanic separation between PC and PLC up to 1000V	
9359-S.05M	**PG-ISO-SET 5m** Interface cable set with galvanic separation between PC and PLC up to 1000V	
9359-S.10M	**PG-ISO-SET 10m** Interface cable set with galvanic separation between PC and PLC up to 1000V	

accessories:

Art. ID.	name	price
9359-9.M	**Adapter COM 1 : COM2** 25pins (male) - 9pins (female)	
9359-9	**Adapter COM 1 : COM2** 9pins (male) - 25pins (female)	
9359-5-150	**AG-150-adapter** for PG-UNI + PG-UNI-II-cable to AG-150	
9359-5	**CP-525-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525	
9359-5K	**CP-525-K-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	
9359-4	**NETZ-adapter** for PG-UNI-cable /UNI-II-cable/S5-LAN	
9359-MAX233	**RS232 / V24 chip** for interfacecable	
9359-6	**SINUM-adapter** for PG-UNI + PG-UNI-II-cable to SINUMERIK	
9359-5-WF470	**WF-470-adapter** for PG-UNI + PG-UNI-II-cable to WF470	
9310	**Additional charge 25-pins PC-plug** special construction of the RS232-side	

Other interface cables

Other useful devices to simplify your work with the PLC

Your advantage of use PI-interface cables:

- extensive cable and adapter program
  in our inventory is a extensive cable and adapter program available for you, even for special connections we have a solution for you
- simple handling
  for most interconnections no external power is required
- easy maintenance
  our free technical hotline is available with help and advice for you
- function reliability
  each cable is manufactured and tested according to quality guidelines in Germany
- function guarantee
  each cable is tested with a special cable tester on all connections and connected to PLC to test online features
- CE and EMV reliability
  all cables are certified by effective directives

article:		
Art. ID.	**name**	**price**
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9359.AF	**monkey-swing** PD-interface CP <=> PD-interface PLC (needed with H1, L1 or L2-bus)	
9359.AB	**PLC-connecting cable** PC <-> Allen-Bradley	
9359-90	**CP-cable** connects PD-TTY-port of TP-I, TP-II with L1,H1,L2-CP, D-Sub 15pins (male) <=> D-Sub 15pins (male)	
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	
9359.0	**Null-modem-cable 9-pin D-SUB** D-SUB 9pins (female) <=> D-Sub 9pins (female), rotated assignment (null modem)	
9359.OP	**OP-Programming cable to PC 3m** serial progamming cable for panels; D-Sub 9pins (female) <=> 15pins (male)	
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9359.PCS	**PCS-cable** for Lauer-operator units	
9359-91	**PG-685-cable 5m** replacement cable for PD-685 to S5-PLC, D-Sub 25pins (male) <=> D-Sub 15pins (male)	
9359.7XX	**PG-7XX-cable 5m**	
9359-MAX233	**RS232 / V24 chip** for interfacecable	
9359.M	**SC-09 cable 3m for Mitsubishi** RS232 <-> RS485	
9359-1-RS232	**USB-Serial-converter cable 3m** USB <=> RS-232	
9359-V24	**V24-adapter** generates a PLC-V24-interface out of the PLC-TTY-interface, ideal for Tele-Link and S5-Diag	
9380-9S	**Connecting cable TELE-Book on Slot-PLC** from Siemens	

Memory modules / Prommer

All about memory modules and the corresponding programming devices

- robust steel plate case (programming devices)
- applicable for use as a desktop unit (programming device)
- easy handling and therefore quick on-site operation
- replacement for already discontinued original products

Memory-modules

Memory-modules for SIMATIC® - S5&S7

Your Advantages by using our PC memory modules:

- Simple Handling
  The programming number is identical with the Siemens programming number
- Secure Handling
  Each module has a label with its type and programming number
- Reduced risk to use the wrong module by mistake
  Module with 21 V = black written labels – modules with -12,5 V = red written labels
- reliable and secure viability
  Each module is produced and verified according to German Quality-Standards
- Guarantied viability
  Each module has to pass a PLC – write and read test
- Guarantied Safeness through mark of conformity (CE) and electromagnetic compatibility mark (EMC)
  All of our modules comply with the current regulations

article:		
Art. ID.	**name**	**price**
375-8LC11	**EEPROM module 2KByte for S90** not RoHs-compliant	
375-8LC21	**EEPROM module 8KByte for S90** not RoHs-compliant	
375-OLC21	**EEPROM module for S95-S115** 2/4KByte - not RoHs-compliant	
375-OLC41	**EEPROM module for S95-S115** 8/16KByte - not RoHs-compliant	
375-OLC41X	**EEPROM module for S95-S115** 8/16KByte with PLC-write protection - not RoHs-compliant	
375-1LA15	**EPROM module 8KByte for S95-S115** not RoHs-compliant	
375-OLA15	**EPROM module 8KByte for S95-S115** not RoHs-compliant	
375-1LA21	**EPROM module 16KByte for S95-S115** not RoHs-compliant	
375-1LA41	**EPROM module 32KByte for S95-S115** not RoHs-compliant	
375-1LA61	**EPROM module 64KByte for S95-S115** not RoHs-compliant	
375-1LA71	**EPROM module 128KByte for S95-S115** not RoHs-compliant	
375-OLA21	**EPROM module 16KByte for S95-S115** not RoHs-compliant	
373-OAA41	**EPROM module 16KWords for S135-S155** not RoHS-compliant	
373-1AA41	**EPROM module 16KWords for S135-S155** not RoHs-compliant	
375-OLA41	**EPROM module 32KByte for S95-S115** not RoHs-compliant	
373-OAA61	**EPROM module 32KWords for S135-S155** not RoHs-compliant	
373-1AA61	**EPROM module 32KWords for S135-S155** not RoHs-compliant	
373-OAA81	**EPROM module 64KWords for S135-S155** not RoHs-compliant	
373-1AA81	**EPROM module 64KWords for S135-S155** not RoHs-compliant	
375-8LA11	**EPROM module 8KByte for S90** not RoHs-compliant	
376-1AA11	**EPROM module short 12,5V 8KWords** for S135-S155 - not RoHs-compliant	
376-1AA21	**EPROM module short 12,5V 16KWords** for S135-S155 - not RoHs-compliant	

article:		
Art. ID.	**name**	**price**
376-1AA31	**EPROM module short 12,5V 32KWords** for S135-S155 - not RoHs-compliant	
376-OAA11	**EPROM module short 21V 8KWords** for S135-S155 - not RoHs-compliant	
376-OAA21	**EPROM module short 21V 16KWords** for S135-S115 - not RoHs-compliant	
376-OAA31	**EPROM module short 21V 32KWords** for S135-S155 - not RoHs-compliant	
375-8LA12	**FLASH-EPROM 8KByte for S90** not RoHs-compliant	
951-0KD00-0AA0	**Flash memory card 16KByte for S7 short** not RoHs-compliant	
951-0KE00-0AA0	**Flash memory card 32KByte for S7 short** not RoHs-compliant	
951-0KF00-0AA0	**Flash memory card 64KByte for S7 short** not RoHs-compliant	
952-0KF00-0AA0	**Flash memory card 64KByte for S7-400 long** not RoHs-compliant	
951-0KG00-0AA0	**Flash memory card 128KByte for S7 short** not RoHs-compliant	
374-2KG21	**Flash memory card 128KByte long** not RoHs-compliant	
374-1KH21	**Flash memory card 256KByte short** not RoHs-compliant	
374-2FH21	**Flash memory card 256KByte long** not RoHs-compliant	
374-2KH21	**Flash memory card 256KByte long** not RoHs-compliant	
951-0KJ00-0AA0	**Flash memory card 512KByte for S7 short** not RoHs-compliant	
375-OLD11	**RAM module 8KByte for S95-S115** not RoHs-compliant	
375-OLD31	**RAM modulel 32KByte for S95-S115** not RoHs-compliant	
377-OAA11	**RAM module short series 377 16KByte** for S135-S155 - not RoHs-compliant	
377-OAA21	**RAM module short series 377 32KByte** for S135-S155 - not RoHs-compliant	
377-OAA32	**RAM module short series 377 64KByte** for S135-S155 - not RoHs-compliant	
377-OAA41	**RAM module short series 377 128KByte** for S135-S155 - not RoHs-compliant	
377-OAB21	**RAM module long series 377 32KByte** for S135-S155 - not RoHs-compliant	
377-OAB31	**RAM module long series 377 64KByte** for S135-S155 - not RoHs-compliant	
377-OAB41	**RAM module long series 377 128KByte** for S135-S155 - not RoHs-compliant	

MULTI-PROMMER

programming device for S5 and S7-300/400 memory modules and Dual-In-Line

- fast access via serial interface
- all Siemens-S5-E(E)PROM memory modules can be read, written or deleted
- are designed for rough industrial application
- comfortable operation software for Win 95/98/ME/NT/2000/XP with direct Siemens file management
- very universal memory programming device
- spacious and robust service bags optionally available
- connecting cable, memory module library and a user-friendly PC program included in delivery

Technical Specifications:

Supply voltage:	230V/AC 50-60Hz (115V/AC optional)
Power consumption:	30 watt
Display:	-
Handling/Configuration:	WinProMMer-Software
Interfaces:	**to the PD/PC:** RS232 to any COM-Port parallel port for centronics-interface **others:** S5-memory modules S5-/S7-FlashCards Dual-In-Line-memory devices 24V/DV-output for UVL3
Operating temperature:	5 - 45°C
Case:	powder coated metal case
Dimensions:	245 x 47 x 187 mm

article:

Art. ID.	name	price
9363-2	**MULTI-PROMMER 230VAC** for S5/S7-Memory-modules	
9363-2-US	**MULTI-PROMMER 115VAC** for S5/S7-Memory-modules	

accessories:

Art. ID.	name	price
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9363-13	**PLCC32-adapter** for MULTI-Prommer	
9363-7	**Servicebag** for MULTI-PROMMER	

MINI-PROMMER

programming device for S5 memory modules

- fast access via serial interface
- all Siemens-S5-E(E)PROM memory modules can be read, written or deleted
- are designed for rough industrial application
- comfortable operation software for Win 95/98/ME/NT/2000/XP with direct Siemens file management
- spacious and robust service bags optionally available
- connecting cable, memory module library and a user-friendly PC program included in delivery

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	8,2 watt
Display:	3 status-LEDs
Handling/Configuration:	WinProMMer-Software
Interfaces:	**to the PD/PC:** RS232 to any COM-Port (connected through) **others:** S5-memory modules
Operating temperature:	5 - 40°C
Case:	powder coated metal case
Dimensions:	80 x 45 x 130 mm

article:

Art. ID.	name	price
9363-5	**MINI-PROMMER III 24VDC** for S5 memory-modules	

accessories:

Art. ID.	name	price
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9363-6	**Servicebag** MINI-PROMMER + FLASH-PROMMER	
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	

FLASH-PROMMER

programming device for S5 and S7 memory modules

- quick access via serial interface
- write, read, delete and compare
- for FlashCards and MMC-Card
- designed for harsh industrial use
- comfortable operation construction Software for Win 95/98/ME/NT/2000/XP with direct Siemens file management
- spacious and robust service bags available as an option

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	LED for function and watchdog supervision
Handling/Configuration:	WinPrommer-Software
Interfaces:	**to the PD/PC:** RS232 to any COM-Port **others:** S5-/S7-FlashCards MMC-Cards (optional)
Operating temperature:	5 - 45°C
Case:	powder coated metal case
Dimensions:	130 x 80x 50mm

article:

Art. ID.	name	price
9363-8	**FLASH-PROMMER-II 24VDC** for Flashcards	
9363-8-MMC	**FLASH-PROMMER-II-MMC 24VDC** for Flashcards + MMC	
9363-8-USB	**FLASH-PROMMER-USB**	

accessories:

Art. ID.	name	price
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9363-6	**Servicebag** MINI-PROMMER + FLASH-PROMMER	
9372-24	**Power connector 3pins big** connector plug lockable by jack with screws	

EPROM-ERASER LG07

Erasing EPROM memory modules

- reliable erasing of EPROM-modules with UV-light
- erasing time adjustable up to 60min
- are designed for rough industrial application

Technical Specifications:

Supply voltage:	230 V/AC 50-60Hz
Power consumption:	8 watt
Handling/Configuration:	turn switch for the time switch
Operating temperature:	5 - 40°C
Case:	anodised aluminium case
Dimensions:	90 x 80 x 240 mm

article:

Art. ID.	name	price
9363-3	**EPROM-Eraser LG-07** 230V Desktop Device with clock	

accessories:

Art. ID.	name	price
9363-3-LAMPE	**Replacement lamp for LG-07** UV-tube with G23-plug	

EPROM-ERASER UVL3

Erasing EPROM memory modules

- reliable erasing of EPROM-modules with UV-light
- erasing time adjustable up to 30min
- are designed for rough industrial application

Technical Specifications:

Supply voltage:	24 V/DC +/- 20%
Power consumption:	8 watt
Handling/Configuration:	rotary switch for the clock timer
Operating temperature:	5 - 40°C
Case:	powder coated metal case
Dimensions:	85 x 50 x 160 mm

article:

Art. ID.	name	price
9363-3-B	**EPROM-Eraser UVL3** 24V Miniature Device as cap	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9363-4-LAMPE	**Replacement lamp for UVL3** UV-tube with G4T5-plug	

PD-interface-multiplexer

Interface-multiplexer for the Programming Device (PD) of the programmable logic controller (PLC)

You have to put an operating device or a text display into operation by connecting it to a PD-Interface?
Be prepared having to stick the plug into the device and out, over and over again!

The time has come to change that!

The PG-MUX makes it possible to operate simultaneously two devices at one PD-interface, regardless whether it is a programming device, a text display, an operating device or any other kind of connections with a PD-interface PG-MUX is an independent communications processor, which multiplexes the PD-interface in real time

By this method you can for example operate two programming devices “ONLINE” at the same time.

PG-MUX II

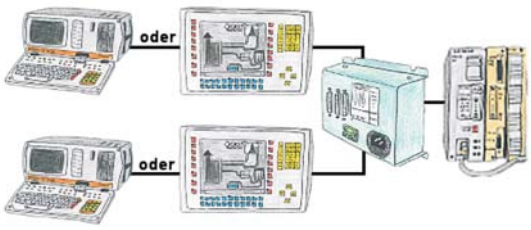
PD-Interface Multiplexer for professionally usage (active)

- advanced version of the world widely used PG-MUX
- all connectors and controls on the front
- permanent checking of the device functions and power supply => restart at failure
- right away ONLINE with both interfaces to the PLC
- all PD functions can be accomplished parallel by 2 PD’s
- possible PLC’s: S5-90, S5-95, S5-100-series, S5-115 (also CPU945), S5-135U-series and S5-155-series
- no additional or specific adapters needed
- connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces
- capability of connecting on PD-side: 2 x AS511 (PD-protocol) / 1 x SINEC-L1-BUS / SIMATIC-S5 AG90...AG155
- 3m cable for AG-connection included in delivery
- also available in the variants for AEG, Bosch, Klöckner-Moeller PS3/4 und Mitsubishi

Technical Specifications:

Supply voltage:	230V/AC +/- 15%, 50-60Hz 24V/DC +/- 20%
Power consumption:	4 watt
Display:	LED for function and watchdog supervision
Interfaces:	**to the PLC:** TTY/20mA current loop (multiplexer aktiv, PLC passiv) **to the PD/PC:** 2 PD x TTY/20mA current loop (multiplexer aktiv, 100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	190 x 110 x 50 mm

PD-interface of the S5-PLC already occupied (service device)



Your PD-interface of the S5-PLC is already occupied with a panel and you should accomplish program modifications without removing the panel? No problem, connect the Multiplexer one-time to the PLC and then connect the panel and also your PC to the Multiplexer. Now you can work parallel with the PLC without the need of affecting the operation of the panel. You can even work with 2 programming devices simultaneously, 2x open the same component, only changes which are stored last will be finally stored in the PLC. Also ideal for trainings purposes if PLC’s are scare goods.

article:		
Art. ID.	**name**	**price**
9361-5	**PG-MUX-II for SIEMENS-S5** with PLC-specific connecting cable to PLC and power cable	

variant:		
Art. ID.	**name**	**price**
9361-11	**PG-MUX-II for AEG A120 + A250** with PLC-specific connecting cable to PLC and power cable	
9361-12	**PG-MUX-II for BOSCH BUEP19 / +E** with PLC-specific connecting cable to PLC and power cable	

variant:		
Art. ID.	**name**	**price**
9361-13-PS3	**PG-MUX-II for Klöckner-Möller for PS3** with PLC-specific connecting cable to PLC and power cable	
9361-13-PS4	**PG-MUX-II for Klöckner-Möller for PS4** with PLC-specific connecting cable to PLC and power cable	
9361-14	**PG-MUX-II for Mitsubishi FX + A-series** with PLC-specific connecting cable to PLC and power cable	
9361-5-24V	**PG-MUX-II for SIEMENS-S5 24V version** incl. connecting-cable to PLC	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9391-MT	**Mounting set** for DIN-rail-holder	
9361-3	**S5-connecting cable 3m** forTELE-PROF, MINI-/PG-MUX-II	
9361-3.05M	**S5-connecting cable 5m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.06M	**S5-connecting cable 6m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.10M	**S5-connecting cable 10m** for TELE-PROF, MINI-/PG-MUX-II	
9361-6	**Servicebag** for PG-MUX-II	
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	

MINI-MUX

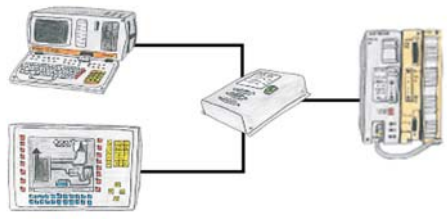
PD-Interface Multiplexer Lightversion (passive)

- is the Light-version of PG-MUX-II because of it's passive OP socket
- as an alternative we offer also a DIN-Rail Version
- all connectors and controls on the front
- all PD functions can be accomplished parallel to a text display by one PD
- possible PLC's: S5-90, S5-95, S5-100-series, S5-115 (also CPU945), S5-135U-series and S5-155-series

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	3 watt
Display:	LED for function and watchdog supervision
Interfaces:	**to the PLC:** TTY/20mA current loop (multiplexer aktiv, PLC passiv) **to the PD/PC:** PD TTY/20mA current loop (multiplexer aktiv, 100 % mechanically and electr. compatible) OP TTY/20mA current loop (multiplexer passiv, restricted to control panel function)
Operating temperature:	5 - 55°C
Case:	metal case with mounting flange
Dimensions:	95 x 135 x 35 mm

PD-interface of the S5-PLC already occupied (OEM-device)



Your PD-interface of the S5-PLC is already occupied with a panel and you should accomplish program modifications without removing the panel? No problem, connect the Multiplexer one-time to the PLC and then connect the panel and also your PC to the Multiplexer. Now you can work parallel with the PLC without the need of affecting the operation of the panel.

article:		
Art. ID.	**name**	**price**
9361-1	**MINI-MUX for S5 RK511 + L1** all cables optional	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9391-MT	**Mounting set** for DIN-rail-holder	
9361-3	**S5-connecting cable 3m** forTELE-PROF, MINI-/PG-MUX-II	
9361-3.05M	**S5-connecting cable 5m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.06M	**S5-connecting cable 6m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.10M	**S5-connecting cable 10m** for TELE-PROF, MINI-/PG-MUX-II	
9361-6	**Servicebag** for PG-MUX-II	
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	

T-Connector to PPI/MPI-Bus

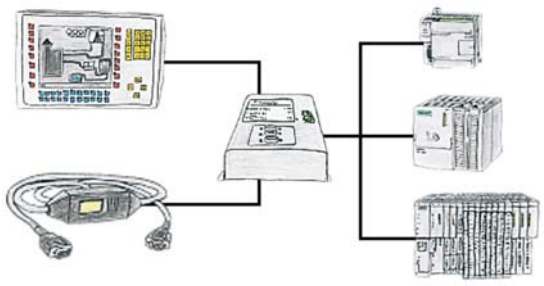
Supply 2 PD's with 24V and 5 V at a S7-200 / 300 / 400 AG interface

- all connectors and controls on the front
- secure supply of two devices that want to provide from the S7
- all PD functions can be accomplished parallel by 2 PD's
- no additional or specific adapters needed
- connecting mechanics, pin assignment and the electrical data correspond to the PD/PLC-interfaces
- 3m cable for PLC-connection included in delivery

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	14 watt
Display:	LED for function and watchdog supervision
Interfaces:	**to the PLC:** 9 pol. plug for AG-connection **to the PD/PC:** 2 x 9 pol. jack for PD-connection
Operating temperature:	5 - 55°C
Case:	metal case with mounting flange
Dimensions:	95 x 35 x 135 mm

Doubling of PPI/MPI/Profibus-interface without bus-connector



Do you have a single control with panel in use and have to accomplish a little modification in the control program? No problem, plug the T-Connector on the PLC, the panel and PC to the device and then both participants can work with the PLC without annoying bus-cable tapering and interconnections.

article:		
Art. ID.	**name**	**price**
9361-7	**T-Connector to PPI / MPI-Bus** doubling of PPI/MPI/Profibus-port without bus connector	

accessories:		
Art. ID.	**name**	**price**
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	

other PLC accessories

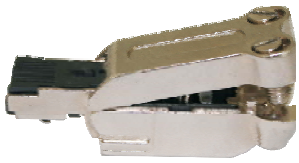
Useful additional Hardware for your PLC

- robust steel plate case with mounting flange
- easy handling and therefore quick on-site operation
- replacement for already discontinued original products

Profinet-Connector

Easy profinet-connection by a click

- Fast assembly by Fast-Connect-Version
- High interference resistance because of full metal case
- Visual connection control
- Cable connection via comfortable insulation displacement technology
- Captive two-screw mounting system
- Locking with metal nose, so no collapse possible



Technical Specifications:

Connector-type:	180° RJ45-plug
Terminals:	4-wire + Shield for Industrial Ethernet FC-cables
Fast Connect (FC):	Yes
Baudrate:	100 Mbps - Cat 5e
Cable length:	maximum 100m
Operating temperature:	-20 - +70°C
Storage temperature:	-40 - +80°C
Relative humidity during operation:	<95%
Isolation class:	IP 20
Dimensions (WxHxD):	13,7 x 16 x 55mm
Weight:	45g

article:		
Art. ID.	**name**	**price**
300 901-1BB10	**Profinet-Connector** Connector for industrial fast-connect-cable	

Profibus-Plug-DiagConn PB

Join a subscriber with an integrated test function

- status display for bus test functions
- high interference resistance because of full metal case
- visual connection control
- cable connection via comfortable insulation displacement technology
- captive one-screw mounting system
- integrated shiftable load resistor
- cable outlet versions 0° / 45° / 90°

Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	0,15 watt
Display:	4 status-LEDs
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** PD/diagnosis-socket (only at the 45° and 90° variant) **others:** 2 x appliance for connecting a 8mm buscable
Operating temperature:	-20 - +75°C
Case:	zinc-diecast
Dimensions:	66 x 40 x 16 mm

article:		
Art. ID.	**name**	**price**
9350-0-DIAG	**DiagConn 0° Highend-connector** for PROFIBUS with diagnosis functions	
9350-4-DIAG	**DiagConn 45° Highend-connector** for PROFIBUS with diagnosis functions	
9350-9-DIAG	**DiagConn 90° Highend-connector** for PROFIBUS with diagnosis functions	

PD- / PLC-Switcher

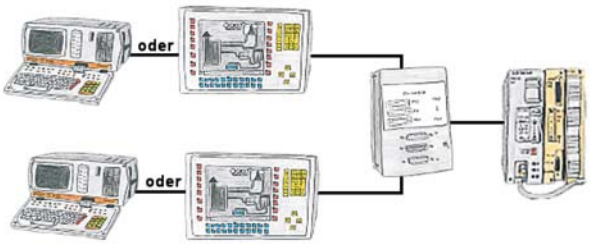
Coupling of one PLC to several PD's or one PD to several PLC's

- connecting mechanism, pin assignment and electrical data match the control's specifications
- applicable with all original and compatible programming devices
- all connection- and operating controls frontal
- supply from the PLC or external

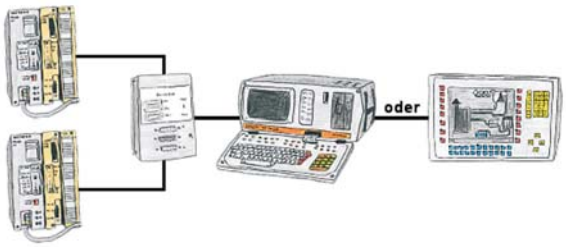
Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	1 watt
Display:	LED-display for aktiv port
Handling/Configuration:	toggle or rotary switch for port selection
Interfaces:	**to the PLC:** 1 / 2 / 4 x TTY/20mA current loop (switch passiv, PLC aktiv) **to the PD/PC:** 1 / 2 x TTY/20mA current loop (100 % mechanically and electr. compatible)
Operating temperature:	5 - 55°C
Case:	EMC-dense metal case with mounting flange
Dimensions:	135 x 110 x 50 mm

Interface switch for the S5



Interface-switch for PD/PC



Your PD-interface of the S5-PLC is already occupied with a panel and you should accomplish program modifications without removing the panel? No problem, connect a device if the PG-Switch-family one-time to the PLC and then connect the panel and also your PC to the device. With a toggle switch (PG-Switch-I) you select the pc or pannel to communciate with the PLC. The selection on a PG-Switch-II will be driven via the 24V-controll input. The PG-Switch-III has an automatic detection. The pannel is connected to the device and can communicate to the PLC. You connect your PD/PC to the device and it switches automatically, so you can communicate. After plug off the PD/PG the device switches back, so the pannel is connected to the PLC.

You have to work with more PLC-devices, but no pleasure to switch on/off? No problem, you connect a device of the AG-Switch-family to the PLC-devices and your PD/PC and you will be able to communicate to both PLCs. The selection which PLC you make for AG-Switch-I via toggle switch and for the AG-Switch-II via 24V-controll input.

article:

Art. ID.	name	price
9360.A	**AG-SWITCH** PD-/PLC-Switcher	
9360.A-4	**AG-SWITCH 4-times** PD-/PLC-Switcher	
9360.A-2	**AG-SWITCH II** PD-/PLC-Switcher	
9360	**PG-SWITCH** PD- / PLC-Switcher	
9360-2	**PG-SWITCH II** PD- / PLC-Switcher	
9360-3	**PG-SWITCH III** PD- / PLC-Switcher	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	

iBx-Busklemme

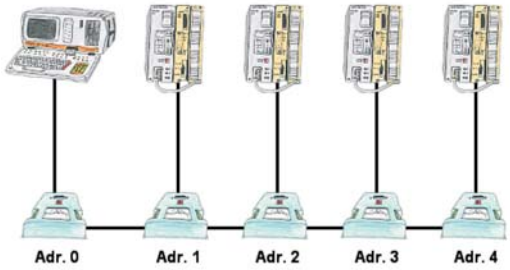
Intelligent networking of S5-PLCs

- no bus terminal resistor necessary
- LEDs for controlling the data stream on the IBX-bus
- all connection- and operating controls frontal
- LWL-adapter available as an option

Technical Specifications:

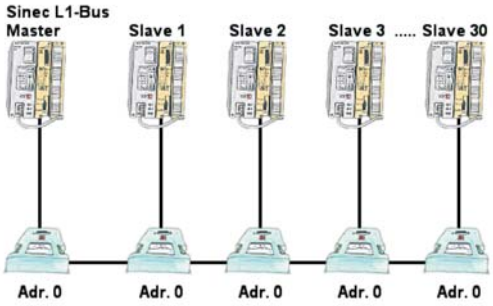
Supply voltage:	24V/DC +/- 20%
Power consumption:	5 watt
Display:	4 status-LEDs
Handling/Configuration:	DIP-Switch for address Configuration
Interfaces:	**to the AG and PD/PC:** TTY/20mA current loop (iBx-Klemme aktiv, PLC passiv) **others:** 10 x screw type terminal for bus connection A and B 2 x screw type terminal for 24V/DC power supply
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	97 x 149 x 36 mm

Linking of S5-PLC's without modifying the PLC-program



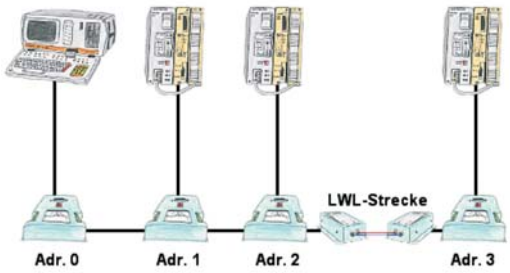
You have to link several S5-PLC's so that in case of need you can respond to all of them without modifying the PLC-program? No problem, connect all PLC's that are in the run with the IBX-Klemme, set up the respective address (1 to 30) at the IBX-Klemme and with the address 0 you will be able to respond to all PLC's via PD-bus-path selection.

Sinec-L1-bus configuration without BT-777-terminal



You have to configure a Sinec-L1-bus, own the master, but there's no BT-777-busterminal to buy? No problem, connect the IBX-Klemme to every S5-PLC that is in the run via the optional IBX-SPS-cable, supply every IBX-Klemme with ext. 24V DC if the PLC is not able to provide it, set-up the address 0 and define the actual L1-bus-address in the PLC. Now your master can communicate with the slave-assemblies.

Longer distances for L1-Bus

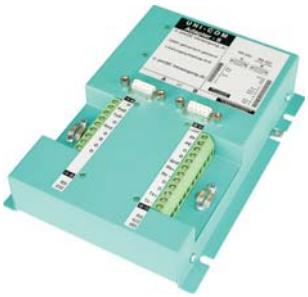


You need for your L1-Bus higher distance like the possible 1200m? You have strong distrubance on your L1-Bus? You need a serial line for higher distances and this galvanic decoupled? No problem, all this points are solved through the LWL-adapter. They are available for artificial and optical fibre, for L1-Bus and RS232.

article:		
Art. ID.	**name**	**price**
9530	**iBx-Busterminal** intelligent bus terminal, substitute for BT-777-terminal, optional PLC-connecting cable	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9429	**DUP-TEXT-Display DUPLINE** Pannel for the Dup-Line-bus	
9530-9S	**iBx-SPS-cable to PLC 3m** one side angled, other side straight cable tap	
9530-9WS	**iBx-SPS-cable to PLC 3m** bothside 45° angle	
9531-K	**Light wire-adapter** for plasticfibre-cables	
9531-G	**Light wire-adapter** for glasfibre-cables	
9532-K	**Light wire-adapter** RS232 for plasticfibre-cables	
9428	**S5-DUP-Interface card**	

UNI-COM



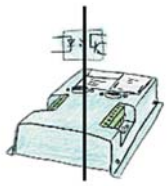
Potential split level conversion for L1-BUS, TTY, RS232, RS422

- 100% galvanic separation of the interfaces up to 1000V
- available in 6 different models
- baud rate up to 38,4 kBd
- 4 LEDs to control the data flow
- interface configuration printed on a label on the front

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	4 watt
Display:	4 status-LEDs
Handling/Configuration:	-
Interfaces:	**others:** 2 x D-Sub-female 9pol 3 x screw type terminal for 24V/DC power supply 18 x screw type terminal for bus connection A and B
Operating temperature:	5 – 55°C
Case:	EMC-dense powder coated metal case with mounting flange
Dimensions:	170 x 125 x 40 mm

Interface accommodation with galvanic decoupling



Sinec L1<=> RS232
TTY<=> RS232
RS422<=> RS232
RS232<=> RS422

You have to connect two devices with different hardware-interfaces? No problem, with the devices of the UNICOM-familiy you will be able to couple both interfaces and get additional a galvanic decoupling up to 1000V.

article:		
Art. ID.	**name**	**price**
9505-3	**UNI-COM II RS422 <-> RS232** isolated level conversion up to 1000V for RS232 <=> RS422	
9505-1	**UNI-COM II SINEC-L1 <-> RS232** isolated level conversion up to 1000V for L1-BUS <=> RS232	
9505-2	**UNI-COM II TTY <-> RS232** isolated level conversion up to 1000V for TTY <=> RS232	
9505-4	**UNI-COM II TTY <-> RS422** isolated level conversion up to 1000V for TTY <=> RS422	

accessories:		
Art. ID.	**name**	**price**
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9505-K	**RS-232-cable for UNI-COM II** PC <=> UNI COM II (RS232 side)	

L1-Controller

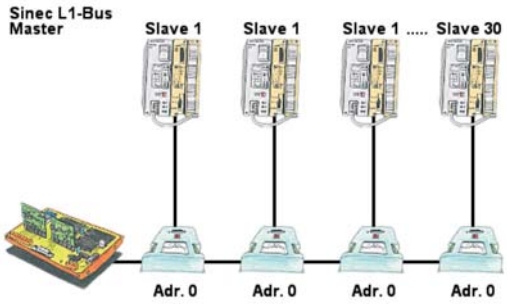
Interface converter for connecting different interface types

- computers have an optional possibility of attendance, as Master or Slave, on Sinec-L1-bus
- the interfaces of the L1 controllers are with plug-in modules (RS232, RS422, TTY, L1-bus) customizable
- easy data exchange with the L1-Bus-Controller via ASCII protocol
- autarkic implementation of the controller's L1-Bus functions, also without computer performance
- settings for diverse baud rates and modes
- status display for preset modes, errors and specifications

Technical Specifications:

Supply voltage:	5V/DC +/- 20%
Power consumption:	-
Display:	2 x 7-segment display
Handling/Configuration:	DIP-Switch
Interfaces:	**others:** 1 x D-Sub-female 9pol for PC connection 3 x Weidmüller for 5V/DC power supply 9 x Weidmüller for bus connection A and B
Operating temperature:	5 – 55°C
Case:	plastic case
Dimensions:	160 x 100 x 50 mm

Sinec-L1-bus without master (CP530)

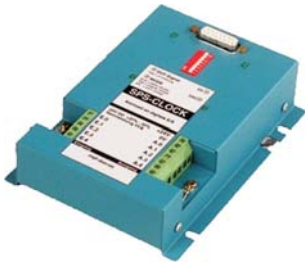


You have a running Sinec-L1-bus and your master the CP530 is defective or rather broke down and the bus has to continue running? No problem, connect the L1-controller to the according bus-modules instead of the CP530, define the circulation list of the clients and the L1-bus continues running immediately.

article:		
Art. ID.	**name**	**price**
9510	**L1-BUS Controller DIN-rail-holder** for 5VDC without plug-in module	
9510-F	**L1-BUS Controller DIN-rail-holder Flash-version** for 5VDC without plug-in module, configuration locked in the flash memory	
9511	**L1-BUS Controller Desktop Device** for 5VDC without plug-in module	
9511-F	**L1-BUS Controller Desktop Device Flash-version** for 5VDC without plug-in module, configuration locked in the flash memory	

accessories:		
Art. ID.	**name**	**price**
9520	**L1-Bus-module** Interface module for the L1-Controller	
9521	**RS-232-module** Interface module for the L1-Controller	
9522	**RS-422-module** Interface module for the L1-Controller	
9523	**TTY-20mA-module** Interface module for the L1-Controller	

PLC-clock



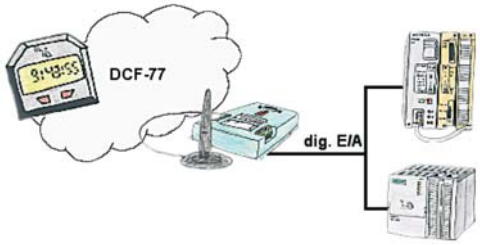
DCF-time reception for the PLC via digital I/O

- transfer of DCF-time and date to the PLC
- representation in sec, min, h, day, month, year, weekday
- statusbits for summer-, wintertime , DCF-OK, etc.
- 4 LEDs for displaying power supply, mode and DCF-Signal

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	3 watt
Display:	4 status-LEDs
Handling/Configuration:	DIP-Switch
Interfaces:	**to the PLC:** 5 x screw type terminal for E/A-inputs 5 x screw type terminal for E/A-outputs **others:** 2 x screw type terminal for 24V/DC power supply 15pol female for DCF77-antenna connection
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	97 x 149 x 36 mm

Atomic time at the PLC



For your production flow you're always in need of an exact time? No problem, connect the SPS-Clock with 4 digital in-/outputs of your PLC, after synchronisation of the SPS-Clock the updating time can be read in a DB of the PLC.

article:		
Art. ID.	**name**	**price**
9366	**DCF-77-antenna** cable length 5m for connecting to SPS-Clock	
9365	**SPS-CLOCK** atomic time to digital I/O of PLC	
9366-1	**Amplifier for DCF-antenna** processing of the DCF-77-signal for longer distances between antenna and SPS-Clock	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	

PG-PRINT, PG-PRINT-III

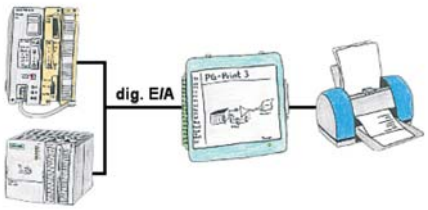
Printing connecting unit for the PLC via digital I/O

- the PG-PRINT has to be connected to the normal PLC-I/O-level with a cable (not scope of the standard delivery) via 8 digital outputs and 1 digital input and the provided PLC-software installed in the S5-PLC
- now db-contents (e.g. texts) can be easily passed on via bits and control words to any Centronics-printer (preferably EPSON-emulation in accordance with special characters)
- 3 additional signals (on demand) can query printer in error status (input), paper-out (input), and printer can be initialised (output)
- with this system you can accomplish e.g. faults and software-flow-controls well-priced
- the PG-PRINT-III is designed with a robust metal case and full 8-bit. The connecting cables are assembled on the case. An extra software tool is included in delivery
- the PG-PRINT is designed with a plastic case and 7-bit
- he will be directly plugged on the Centronics-socket. The connecting cable to PLC is not included in delivery

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	6 watt
Display:	LED for power supply
Interfaces:	**to the PLC:** 1 x phönix plug for PLC-connection **to the PD/PC:** 1 x 25pol D-Sub-female for printer connection **others:** 1 x connection plug for 24V/DC power supply
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	109 x 107 x 34 mm

Direct printing from the PLC via dig. I/O



You need production data, circulation lists of your PLC's, but don't want to use a CP or don't get a serial printer anymore? No problem, you need 8 digital outputs and 3 digital inputs of the PLC, and if you connect the PG-Print at it you can generate these lists with a EPSON- or HP-compatible parallel printer.

article:		
Art. ID.	**name**	**price**
9364	**PG-PRINT** printing out of the PLC via dig. I/O	
9364-2	**PG-Print III** incl. PLC-software + cable	
9364-3	**PG-PRINT-S5-softwaretools** handling blocks for comfortable approach of the PG-Print	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	

PG-FOX

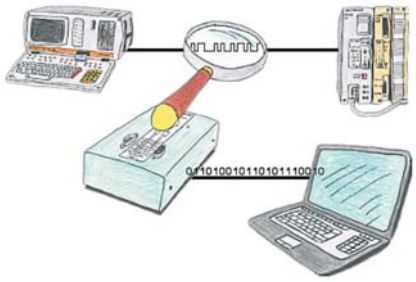
Recording of serial transmission lines for error analysis

- listening in, logging and analysing of asynchronous communication protocols
- versions for RS232 / RS422 / RS485 and TTY
- galvanic separation of PC and communication line
- data output in HEX- or ASCII-format

Technical Specifications:

Supply voltage:	9V/DC
Power consumption:	- watt
Interfaces:	**to the PLC:** depending on the variant: 2 x RS232 2 x RS422 2 x TTY/20mA current loop **to the PD/PC:** 2 x RS232
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	130 x 80 x 35 mm

Logging and analysis of communication data



You want check,why your application can´t communicate with the PLC or why after some time past the communication will be broken? No problem, integrate the PG-FOX-hardware in this communication way and log through the PG-FOX-software on an PC the sended data in the exact time. So, you can later check the date and find a solution of the problem.

article:		
Art. ID.	**name**	**price**
9362-1P	**PG-FOX-PLUS RS-232** active protocoll-recording for RS232-track to PC with 2 COM-ports	
9362-2P	**PG-FOX-PLUS RS-422** active protocoll-recording for RS422-track to PC with 2 COM-ports	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9362	**PG-FOX-software 16 Bit** DOS	
9362-32	**PG-FOX-software 32 Bit** Win95/98/NT/2000/XP	
9362-U	**U-adapter** power supply	

S5-DIAG

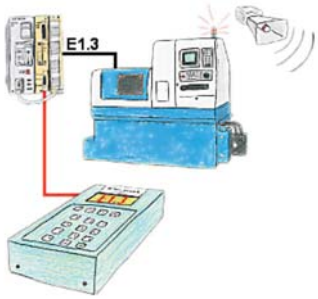
Quick and comfortable debugging for the PLC and the bus

- simple connect to the PLC via the PD-interface
- troubleshooting without the need of programming one line
- error report in a clear and plain way
- signal recording possible
- comfortable operation via function keys
- 2 languages selectable (German/English)
- power supply from the PLC
- optional power supply possible, in case PLC has no power sources

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	3,5 watt
Display:	LCD-display
Handling/Configuration:	integrated keypad with function keys
Interfaces:	**to the PLC:** TTY/20mA current loop
Operating temperature:	5 - 55°C
Case:	powder coated metal case
Dimensions:	187 x 110 x 49 mm

S5-PLC-diagnosis or signal's doesn't come, but why?



Your installation shows an error and the commissioning engineer isn't available? No problem, connect S5-DIAG with the PLC, enter reason of PLC's malfunction (e.g. O32.5 doesn't come) and the device lists the possibilities why the output has not been set. So you're able to figure out the problem (e.g. safety door not locked) quickly.

article:

Art. ID.	name	price
9368	**S5-DIAG** Hand-held unit incl. connecting-cable	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	

KOR-MUX / TELE-Switch

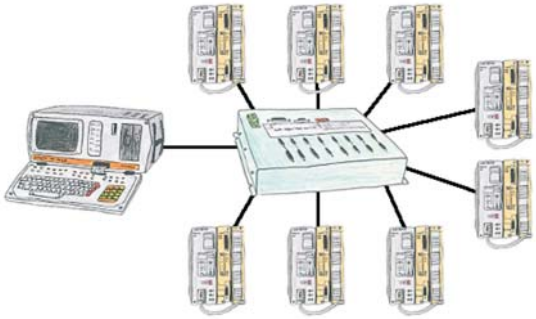
Programming several S5-PLC's with one PD without plugging on/off

- compatible with MUX757 in KOR-MUX-mode
- operation as TELE-Switch possible
- Ports (1-31) are cascadable
- up to 8 accessible slaves per COM-port of PC

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	12 watt
Display:	8 LEDs for displaying the aktiv port
Handling/Configuration:	DIP-Switch for cascadability of the ports and mode Configuration
Interfaces:	**to the PLC:** 8 x TTY/20mA current loop (100 % mechanically and electr. compatible) 8 x RS232: 9,6 KBd - 115,2 KBd / fully assigned **to the PD/PC:** 1 x TTY/20mA current loop (100 % mechanically and electr. compatible) 1 x RS232: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	352 x 182 x 42 mm

Many PLC-devices conflated



You have many PLC and you want to programm them central on one place? No problem, you have to connect them all to the KOR/MUX-Tele-Switch an with the PD-bus-selection of your Step5-software you go ONLINE. Of course the KOR/MUX-Tele-Switch is cascadable, so you can connect up to 30 PLCs to the devices.

article:

Art. ID.	name	price
9370-KOR	**KOR-MUX / TELE-SWITCH** 8 devices (TTY/RS232) to 1 port (TTY/RS232), supports PD-path selection, also for TP-I, TP-II	

accessories:

Art. ID.	name	price
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	

16-times PC-Switch

Communicate with multiple serial devices without replugging

- cascading of the switches on 4 bits of the Centronics interface
- serial and Centronics interface conected through
- active port indicated by a LED

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1,5 watt
Display:	16 LEDs for displaying the aktiv port
Handling/Configuration:	DIP-Switch for cascadability of the Switches
Interfaces:	16 x RS232: 9,6 KBd - 115,2 KBd / fully assigned 1 x RS232 input: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the PC 1 x RS232 output: 9,6 KBd - 115,2 KBd / with a 1on1-cable to the next switch 1 x Centronics input: for switch selection via 4 bit 1 x 25pin D-Sub output: for switch selection via 4 bit
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	352 x 182 x 42 mm

article:

Art. ID.	name
9360-16	**16-times-PC-SWITCH** 16 devices to one RS232-port, changeover carried out by software andand LPT-port

accessories:

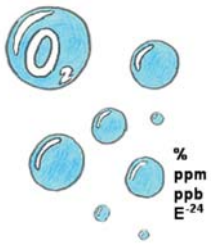
Art. ID.	name
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws

Gasanalysis

Determination of the residual oxygen content in gases

- very precise O2-measurement results
- devices with (OSC-II) and without (OSM-HMG) measuring probe
- adaptation of the measuring probes possible via probe offset
- devices are designed for industrial application
- continuous oxygen measuring by permanent running

Oxygen content in gases



OSM-HMG

mobile and accurate measurement of oxygen at OSM sensors

- display of oxygen in %
- metering range 0 - 100% oxygen
- handily use because of battery operation
- for external OSM-sensor
- pin assignment of the DIN-sockets on the label
- zero compensation and slope balance via Potis
- resolution of the metering range in 0,1% steps
- accuracy over total metering range +/- 1%
- output voltage proportional to the aligned measured value of 0 - 1V

Technical Specifications:

Supply voltage:	9V/DC battery block integrated 12 - 24V/DC charging voltage
Power consumption:	0,8 watt
Display:	LCD-display / 13mm / 3,5-digit LED for charge control
Handling/Configuration:	on-/off-switch 2 x poti
Interfaces:	4pol DIN-female for sensor connection 5pol DIN-female for test port jack bush for charging cable
Operating temperature:	5 - 55°C
Case:	plastic case (black)
Dimensions:	195 x 100 x 40 mm

Easy handily oxygen display

You need the concentration of oxygen in your neighborhood? No problem, with the mobile HMG you can determine the concentration from 1 up to 100% with a exactness of 1% (dependend on your sensor).

article:		
Art. ID.	**name**	**price**
9101.9	**OSM-HMG** hand measuring instrument	
9101.2	**OSM sensor** Plum - O2 - Cell	

Oxygen - Service - Controller II

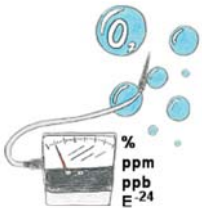
Analyzer for determination of residual oxygen in gases

- integrated zirconium probe
- high metering precesion
- automatic switch of range %, ppm, E-xx
- high resolution of the display areas
- integrated switchable pump
- integrated flowmeter with regulating valve 0 - 10 l/h
- probe offset with known O2-content of test gas possible
- free adjustable limit values for the relay outputs
- configurations are code protected against accidental modifications
- configurations are stored with mains failure protection

Technical Specifications:

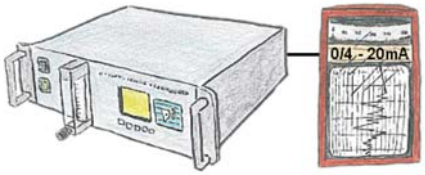
Supply voltage:	230V/AC 50Hz
Power consumption:	200 watt
Display:	illuminated, detailed graphics display (70 x 35 mm) 5 LEDs (power, heating, relay outputs)
Handling/Configuration:	integrated keypad
Interfaces:	1 x analogue outputs: 0/4 - 20mA 3 x digital outputs: 230V / 2A 2 x sample gas connection 4mm VA-pipe (in-/outputs) 1 x D-Sub-female for RS232/422(optional)
Operating temperature:	
Case:	metal case in the versions (19"-slot / table device / service carrying case)
Dimensions:	19"-slot: 440 x 370 x 135 mm table device: 360 x 350 x 150 mm service carrying Case: 360 x 350 x 150 mm

Oxygen analysis in industrial gases



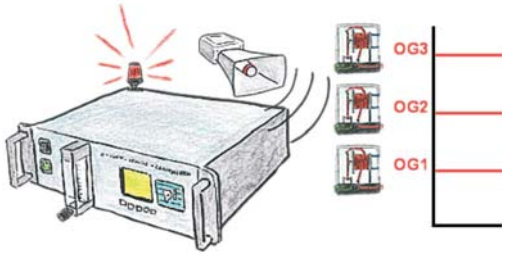
You need a continuous measurement of the concentration of oxygen without any configuration of the device or a switch of range of measurement? No problem, with the OSC-II-devices you are right. It shows you the concentration from % down to E -24 without any action from you. It switches automatically the ragne of measurement.

Documentation of oxygen concentration



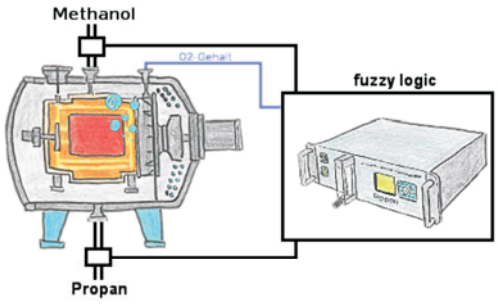
The integratet current output issues the actual concentration in the range of 0/4 - 20mA via free definable limits.

Free definable limits



You need some limits? No problem, with the OSC-II-devices you will be able to define 3 relay outputs (toggle switch) like UG (down level) or OG (top level) or as a ready-flag (internal probe has working temperature).

Fuzzy controller with the OSC-II



Through 3 free configurable limits (of each kind) you won´t be able to realice a fuzzy-controller of your heat treatment furnace.

article:		
Art. ID.	**name**	**price**
9110.1	**OSC-II 19" Rack Device** OxygenServiceController 100% - 10E-24%	
9110.3	**OSC-II Service-Transport-Box** OxygenServiceController 100% - 10E-24%	
9110.2	**OSC-II Desktop Device** OxygenServiceController 100% - 10E-24%	
9110.0	**OSC-II Wallcase** Without probe, pump and mass-flow-controller	
9110.4	**OSC-II Z-Box** External device with probe, pump and mass-flow-controller. Connection to wallcase with thermocouple extension wire recommended	

PLC-software-tools

Interesting tools for your PLC control

- easy handling and therefore quick on-site operation
- one software release for all operating systems from Win98 to Vista
- testable as demo version without installation on the hard drive

PLC – Data safety

PLC-Backup and restore for the S5- and S7-PLC

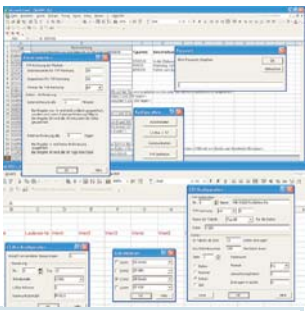
- backup of the PLC-programs for data protection
- simple restoring of the made backup

article:		
Art. ID.	**name**	**price**
9650	**SPS-Data saftey S5-BACKUP/S5-RESTORE** DOS company license	
9650-UNI	**PLC-Data saftey S5/S7/H1-Backup** Win95/98/NT/2000/XP company license	
9650-MPI	**SPS-Data saftey S7-BACKUP/S7-RESTORE** DOS company license	

CIM - 2001

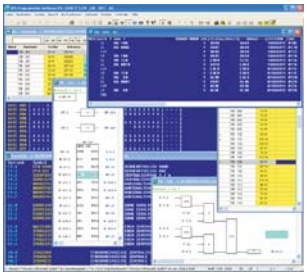
Process - Visualisation, PLC - data directly into Excel

- visualisation on screen e.g. in excel
- logging via the printer/screen
- archiving on the PC (data saving/restoring)
- process control by the PC
- safe operation, using standardised user interface



article:		
Art. ID.	**name**	**price**
9820	**CIM-2001 for single S5 (without Bus)** Single license	
9820-F	**CIM-2001 for single S5 (without Bus)** Company license	
9820-B	**CIM-2001 for up to 30 x S5 (with Bus)** Single license	
9820-B-F	**CIM-2001 for up to 30 x S5 (with Bus)** Company license	
9821	**CIM-2001 for S7-300/400** Single license	
9821-F	**CIM-2001 for S7-300/400** Company license	
9822	**CIM-2001 for S7-300/400 over RFC1006** Single license	
9822-F	**CIM-2001 for S7-300/400 over RFC1006** Company license	

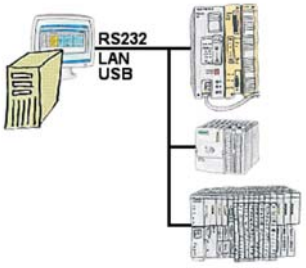
STEP5/STEP7-PD-Software



PG2000 - Programming with comfort

- for Siemens-PLC's S5-90 … S5-155, S7-300[FREEWARE without support] and S7-400[FREEWARE without support]
- according to the licensed usage rights STEP5 + STEP7[FREEWARE without support] can be programmed in STL statementlist, LAD ladder mode and CFS (for S5) / FBD (for S7[FREEWARE without support]) functionplan
- system requirements AT386 with 4MB RAM, 16MB free space on the fixed disc and MS-Windows version 98/NT/2000/XP/Vista/windows 7
- direct processing of the original S5D files; existing files can be assumed directly from Siemens-PD´s; a conversion is not necessary; with PG-2000 created S5D files can also be processed with a Siemens-PD without difficulty
- the enhanced graphic symbols in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are integrated
- at LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) all symbols are easily selectable from a toolbar (can be positioned freely)
- online syntax checking already during input of the instruction
- the main commands are directly selectable by using the mouse or by keypress
- no differentiation of the normal modes: input, view, correction
- during editing direct switching of the representation types STL, LAD, CFS (for S5) / FBD (for S7[FREEWARE without support]) is possible, as well as parallel presentation
- the accountant of PG-2000 provides numerous features for marking, transferring, deleting and comparing of single blocks, block groups or all blocks
- the result of a block comparison is displayed readable in STL form, not as hexdump
- via Windows clipboard the block feature enables comfortable copying, scrolling and deleting of single lines, marked blocks or entire networks
- blocks which contain calls of no longer existing FB's can be edited anyway
- if parameters will be inserted or deleted from a FB-header, the already existing accesses to the formal operand retains
- previously necessary commands "NOP 0", which were generated in the course of program input in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are no longer required
- PG-2000 is modularly structured, so that the user only has to aquire the program modules he actually needs for his daily work
- low priced subsequent- and company licenses are available; for schools and for occupational field there are non-commercial school licenses available (without a limitation of users and for a nonrecurring low nominal charge)
- everything existing so far should be taken for granted at PG-2000, because PG-2000 is the only open PLC programming system of the future; PG-2000 will be constantly developed, even particular desires of users will be taken into account in full detail
- at reorder within 6 months the already paid license charge will be credited to 100%, within 12 months to 50%
- the integrated project management offers an optimal overview of the projects
- detailled online help with graphic elements and cross references
- simultaneous display of lines- and symbolism comments

Programming/controlling of S5/7[FREEWARE without support]-PLC's



If you have to accomplish modifications in your installation, connect the PC with the PLC and start your programming package PG-2000. With this software you have one and the same user interface for S5 and S7[FREEWARE without support], so you don't have to switch between both versions, just as it is with most of other packages.

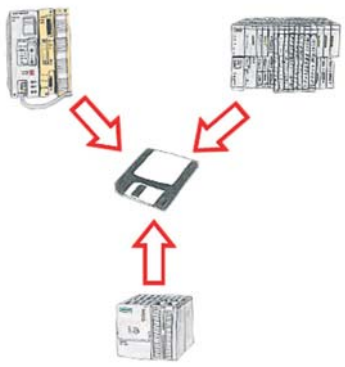
Remote maintenance of a S7-PLC[FREEWARE without support]

You have to solve a problem in the PLC-program, but the installation is not placed nearby? No problem, start your PG-2000-software with "option teleservice", activate your modem and after selection intra PG-2000-software access to the PLC is possible as if being on-site.

Data logging of your PLC

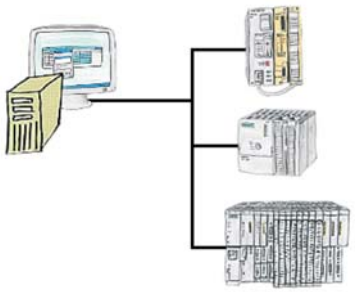
You shortly need a logging of your PLC's operating states respectively are on the way of figuring out a problem and have no datalogger? No problem, connect the PC, start the PG-2000-software with "option datalogger", define relevant variables, appoint timestamp and then the recording starts running immediately. The data will be stored on the fixed disc according to the configuration.

Backup of formulas without knowledge of PLC



You consistently have to back up formulas which are stored in data blocks or back up production protocols, but the employee in charge has no knowledge of PLC-programming respectively handling PC-programs? No problem, install the PG-2000-software with "option DB-backup" on your PC and connect it with the PLC. The employee only has to click on a symbol on the desktop of the PC and the data blocks of the parameterised PLC will be stored on the fixed disc. Afterwards the program closes itself and the mentioned employee didn't had to accomplish an intervention on the program.

Project/history-administration of PLC-programming



Who doesn't know this? When accessing the PLC you find out that parts of the program flow has been changed and none of the colleagues/employees are responsible for it? Therefore install the "option controller" for the PG-2000-software, and every activity of the employees working with the program will be recorded. So you can identify the one employee very quickly and changes are ex post comprehensible, too.

PG-2000 STEP 5

```
Netzwerk 1 von 3 HUTUMHTIKPKUGKHHT
     :UN   -Merker50.0
     :L    KT 0004.0
     :SE   T    1
     :U    M  255.5
     :R    M  255.5
     :
     :U    -Merker50.0
     :R    -Merker50.0
     :
     :SPA  FB  20
Name :PARIT.X
     :SPA  FB  30
Name :PARIT.Z
     :
```

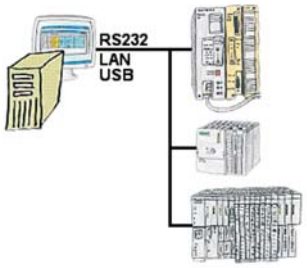
STEP5 - Programming with comfort

- for Siemens-PLC's S5-90 … S5-155, S7-300[FREEWARE without support] and S7-400[FREEWARE without support]
- according to the licensed usage rights STEP5 + STEP7[FREEWARE without support] can be programmed in STL statementlist, LAD ladder mode and CFS (for S5) / FBD (for S7[FREEWARE without support]) functionplan
- system requirements AT386 with 4MB RAM, 16MB free space on the fixed disc and MS-Windows version 98/NT/2000/XP/Vista/windows 7
- direct processing of the original S5D files; existing files can be assumed directly from Siemens-PD´s; a conversion is not necessary; with PG-2000 created S5D files can also be processed with a Siemens-PD without difficulty
- the enhanced graphic symbols in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are integrated
- at LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) all symbols are easily selectable from a toolbar (can be positioned freely)
- online syntax checking already during input of the instruction
- the main commands are directly selectable by using the mouse or by keypress
- no differentiation of the normal modes: input, view, correction
- during editing direct switching of the representation types STL, LAD, CFS (for S5) / FBD (for S7[FREEWARE without support]) is possible, as well as parallel presentation
- the accountant of PG-2000 provides numerous features for marking, transferring, deleting and comparing of single blocks, block groups or all blocks
- the result of a block comparison is displayed readable in STL form, not as hexdump
- via Windows clipboard the block feature enables comfortable copying, scrolling and deleting of single lines, marked blocks or entire networks
- blocks which contain calls of no longer existing FB's can be edited anyway
- if parameters will be inserted or deleted from a FB-header, the already existing accesses to the formal operand retains
- previously necessary commands "NOP 0", which were generated in the course of program input in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are no longer required
- PG-2000 is modularly structured, so that the user only has to aquire the program modules he actually needs for his daily work
- low priced subsequent- and company licenses are available; for schools and for occupational field there are non-commercial school licenses available (without a limitation of users and for a nonrecurring low nominal charge)
- everything existing so far should be taken for granted at PG-2000, because PG-2000 is the only open PLC programming system of the future; PG-2000 will be constantly developed, even particular desires of users will be taken into account in full detail
- at reorder within 6 months the already paid license charge will be credited to 100%, within 12 months to 50%
- the integrated project management offers an optimal overview of the projects
- detailled online help with graphic elements and cross references
- simultaneous display of lines- and symbolism comments

License- and usage rights:

- due to user handling reasons we abstain from software protection by dongle or likewise, but each license incorporates the licensee's address and appears several times in the program
- though a single license may be installed on several PC's, it is not allowed to be used on more than one PC at the same time
- subesequent licenses are needed if simultaneous working on several PC's is required; the activation of options has to be identical with the ones of the single license
- a company license allows one and the same company resp. plant to use the PLC programming software in unlimited numbers simultaneously; each plant resp. division requires a separate company license
- a school license allows one and the same school resp. training centre to use the PLC programming software in unlimited numbers; with signing the license agreement the responsible trainer confirms that the software will be used uncommercial and only for training purposes
- S5 requires at least S5-STL, S7 at least S7-STL(FREEWARE without support)
- economic prices because of modular usage rights
- free software update and hotline service

Programming/controlling of S5/7[FREEWARE without support]-PLC's

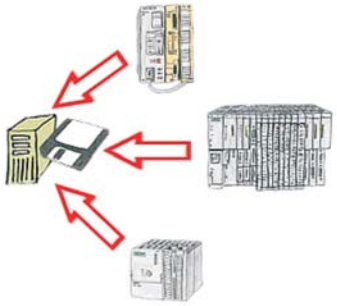


If you have to accomplish modifications in your installation, connect the PC with the PLC and start your programming package PG-2000. With this software you have one and the same user interface for S5 and S7[FREEWARE without support], so you don't have to switch between both versions, just as it is with most of other packages.

Remote maintenance of a S7-PLC[FREEWARE without support]

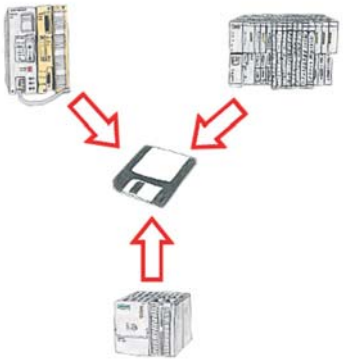
You have to solve a problem in the PLC-program, but the installation is not placed nearby? No problem, start your PG-2000-software with "option teleservice", activate your modem and after selection intra PG-2000-software access to the PLC is possible as if being on-site.

Data logging of your PLC



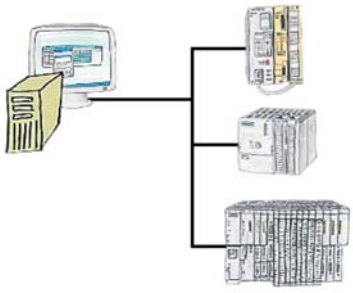
You shortly need a logging of your PLC's operating states respectively are on the way of figuring out a problem and have no datalogger? No problem, connect the PC, start the PG-2000-software with "option datalogger", define relevant variables, appoint timestamp and then the recording starts running immediately. The data will be stored on the fixed disc according to the configuration.

Backup of formulas without knowledge of PLC



You consistently have to back up formulas which are stored in data blocks or back up production protocols, but the employee in charge has no knowledge of PLC-programming respectively handling PC-programs? No problem, install the PG-2000-software with "option DB-backup" on your PC and connect it with the PLC. The employee only has to click on a symbol on the desktop of the PC and the data blocks of the parameterised PLC will be stored on the fixed disc. Afterwards the program closes itself and the mentioned employee didn't had to accomplish an intervention on the program.

Project/history-administration of PLC-programming



Who doesn't know this? When accessing the PLC you find out that parts of the program flow has been changed and none of the colleagues/employees are responsible for it? Therefore install the "option controller" for the PG-2000-software, and every activity of the employees working with the program will be recorded. So you can identify the one employee very quickly and changes are ex post comprehensible, too.

article:		
Art. ID.	**name**	**price**
9851	**PG-2000 STEP5-STL single license** representation statementlist for Siemens S5	
9851-3	**PG-2000 STEP5-STL company license** representation statementlist for S5-90 ... 155U	
9851-2	**PG-2000 STEP5-STL subsequent license** representation statementlist for S5-90 ... 155U	

options:		
Art. ID.	**name**	**price**
9851-CTR	**PG-2000 option Controller single license** comfortable Projekt / History - administration	
9851-CTR-3	**PG-2000 option Controller company license** comfortable Projekt / History - administration	
9851-CTR-2	**PG-2000 option Controller subsequent license** comfortable Projekt / History - administration	
9856	**PG-2000 option Datalogger single license** linewriter for the PLC	
9856-3	**PG-2000 option Datalogger company license** linewriter for the PLC	
9856-2	**PG-2000 option Datalogger subsequent license** linewriter for the PLC	
9851-DB	**PG-2000 option DB - Backup single license** automatic Backup / Restore of DB's	
9851-DB-3	**PG-2000 option DB - Backup company license** automatic Backup / Restore of DB's	
9851-DB-2	**PG-2000 option DB - Backup subsequent license** automatic Backup / Restore of DB's	
9854	**PG-2000 option CFS single license** representation functionplan	
9854-3	**PG-2000 option CFS company lic.** representation functionplan	
9854-2	**PG-2000 option CFS subsequent lic.** representation functionplan	
9858	**PG-2000 option H1 single license** programming over Network-adapter	
9858-3	**PG-2000 option H1 company license** programming over Network-adapter	
9858-2	**PG-2000 option H1 subsequent license** programming over Network-adapter	
9853	**PG-2000 option LAD single license** representation ladder mode	
9853-3	**PG-2000 option LAD company license** representation ladder mode	
9853-2	**PG-2000 option LAD subsequent license** representation ladder mode	

PG-2000 STEP 7

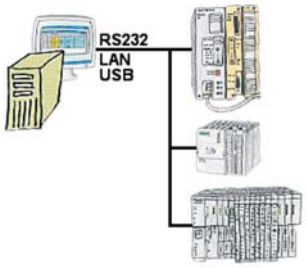
STEP7 - Programming with comfort

- for Siemens-PLC's S5-90 … S5-155, S7-300[FREEWARE without support] and S7-400[FREEWARE without support]
- according to the licensed usage rights STEP5 + STEP7[FREEWARE without support] can be programmed in STL statementlist, LAD ladder mode and CFS (for S5) / FBD (for S7[FREEWARE without support]) functionplan
- system requirements AT386 with 4MB RAM, 16MB free space on the fixed disc and MS-Windows version 98/NT/2000/XP/Vista/Windows 7
- direct processing of the original S5D files; existing files can be assumed directly from Siemens-PD´s; a conversion is not necessary; with PG-2000 created S5D files can also be processed with a Siemens-PD without difficulty
- the enhanced graphic symbols in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are integrated
- at LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) all symbols are easily selectable from a toolbar (can be positioned freely)
- online syntax checking already during input of the instruction
- the main commands are directly selectable by using the mouse or by keypress
- no differentiation of the normal modes: input, view, correction
- during editing direct switching of the representation types STL, LAD, CFS (for S5) / FBD (for S7[FREEWARE without support]) is possible, as well as parallel presentation
- the accountant of PG-2000 provides numerous features for marking, transferring, deleting and comparing of single blocks, block groups or all blocks
- the result of a block comparison is displayed readable in STL form, not as hexdump
- via Windows clipboard the block feature enables comfortable copying, scrolling and deleting of single lines, marked blocks or entire networks
- blocks which contain calls of no longer existing FB's can be edited anyway
- if parameters will be inserted or deleted from a FB-header, the already existing accesses to the formal operand retains
- previously necessary commands "NOP 0", which were generated in the course of program input in LAD and CFS (for S5) / FBD (for S7[FREEWARE without support]) are no longer required
- PG-2000 is modularly structured, so that the user only has to aquire the program modules he actually needs for his daily work
- low priced subsequent- and company licenses are available; for schools and for occupational field there are non-commercial school licenses available (without a limitation of users and for a nonrecurring low nominal charge)
- everything existing so far should be taken for granted at PG-2000, because PG-2000 is the only open PLC programming system of the future; PG-2000 will be constantly developed, even particular desires of users will be taken into account in full detail
- at reorder within 6 months the already paid license charge will be credited to 100%, within 12 months to 50%
- the integrated project management offers an optimal overview of the projects
- detailled online help with graphic elements and cross references
- simultaneous display of lines- and symbolism comments

License- and usage rights:

- FREEWARE, no guarantee and support
- Step7 in demo-version (see: Main downloads) included, costless FREEWARE-license must be requested

Programming/controlling of S5/7[FREEWARE without support]-PLC's



If you have to accomplish modifications in your installation, connect the PC with the PLC and start your programming package PG-2000. With this software you have one and the same user interface for S5 and S7[FREEWARE without support], so you don't have to switch between both versions, just as it is with most of other packages.

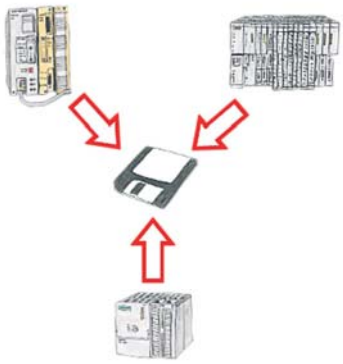
Remote maintenance of a S7-PLC[FREEWARE without support]

You have to solve a problem in the PLC-program, but the installation is not placed nearby? No problem, start your PG-2000-software with "option teleservice", activate your modem and after selection intra PG-2000-software access to the PLC is possible as if being on-site.

Data logging of your PLC

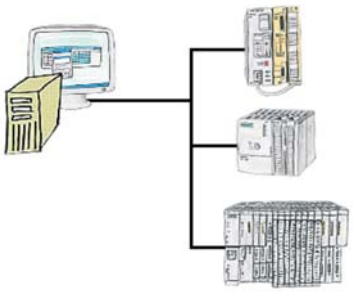
You shortly need a logging of your PLC's operating states respectively are on the way of figuring out a problem and have no datalogger? No problem, connect the PC, start the PG-2000-software with "option datalogger", define relevant variables, appoint timestamp and then the recording starts running immediately. The data will be stored on the fixed disc according to the configuration.

Backup of formulas without knowledge of PLC



You consistently have to back up formulas which are stored in data blocks or back up production protocols, but the employee in charge has no knowledge of PLC-programming respectively handling PC-programs? No problem, install the PG-2000-software with "option DB-backup" on your PC and connect it with the PLC. The employee only has to click on a symbol on the desktop of the PC and the data blocks of the parameterised PLC will be stored on the fixed disc. Afterwards the program closes itself and the mentioned employee didn't had to accomplish an intervention on the program.

Project/history-administration of PLC-programming



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article:		
Art. ID.	**name**	**price**
9855-S7-0	**PG-2000 STEP7 FREEWARE without support / guarantee** STL + LAD + FBD	

options:		
Art. ID.	**name**	**price**
9851-CTR	**PG-2000 option Controller single license** comfortable Projekt / History - administration	
9851-CTR-3	**PG-2000 option Controller company license** comfortable Projekt / History - administration	
9851-CTR-2	**PG-2000 option Controller subsequent license** comfortable Projekt / History - administration	
9856	**PG-2000 option Datalogger single license** linewriter for the PLC	
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9853	**PG-2000 option LAD single license** representation ladder mode	
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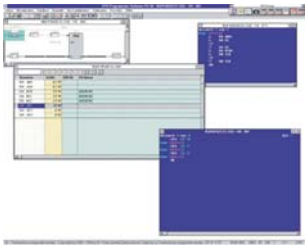
9853-2	**PG-2000 option LAD subsequent license** representation ladder mode	
9851-TS	**PG-2000 option Teleservice single license** original TS-function for PG-2000	
9851-TS-3	**PG-2000 option Teleservice company license** original TS-function for PG-2000	
9851-TS-2	**PG-2000 option Teleservice subsequent license** original TS-function for PG-2000	

PG-2000 Complete package



STEP5 & STEP7 - Programming with comfort

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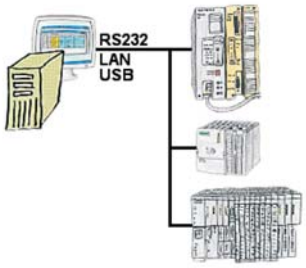

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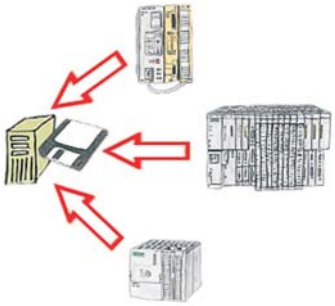

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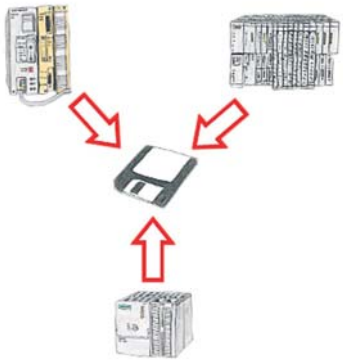

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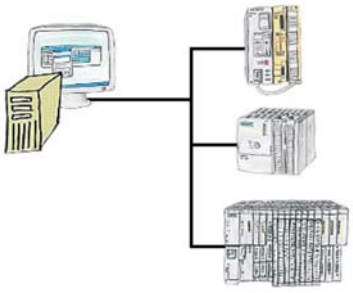

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article:		
Art. ID.	**name**	**price**
9855	**PG-2000 STEP5 complete package single license** STL + LAD + CFS	
9855-3	**PG-2000 STEP5 complete package company lic.** STL + LAD + CFS	
9855-2	**PG-2000 STEP5 complete package subsequent lic.** STL + LAD + CFS	
9890	**PG-2000 STEP5 complete package school license** STL + LAD + CFS	

options:		
Art. ID.	**name**	**price**
9851-CTR	**PG-2000 option Controller single license** comfortable Projekt / History - administration	
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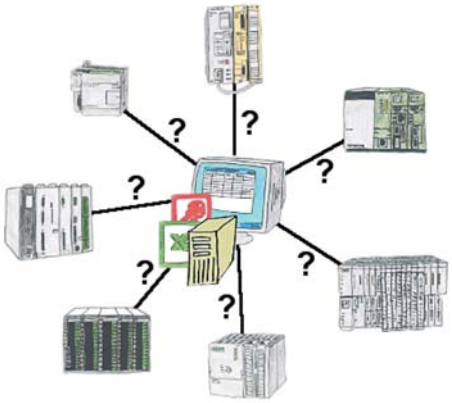
9851-TS-2	**PG-2000 option Teleservice subsequent license** original TS-function for PG-2000	

PLC - communication driver

Driver for S7- / S5- / AEG- / BOSCH- and MITSUBISHI-controll systems

- operating systems: Windows CE/NT/2000/XP/Vista, Linux
- programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java

Communication to PLC-devices, but no knowledge of the specific protocoles



Who know´s the problem, you need for the analysis of your production some data from the plc, but you don´t know the protocole of the PLC? No problem, you have to use the specific protocole of the PLC as DLL in your application (if itself developed or Excel, Access, ans so on) and you will be able to read from or write to the PLC.

SIMATIC S7-communication driver

Driver for the communication with S7-controll systems

- operating systems: Windows CE/NT/2000/XP/Vista, Linux
- no additional PLC-program necessary
- inputs, outputs, flags, DB's, timers, counters
- programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- DLL/library for data exchange PC and SIMATIC S7

article:		
Art. ID.	**name**	**price**
9742.LIN-P	**IP-S7-LINK LINUX single license** for the operating system Linux	
9742.LIN	**IP-S7-LINK LINUX company license** for the operating system Linux	
9742.64-S7-P	**IP-S7-LINK S7-200/300/400/1200 single license** XP/Vista/Windows 7 64-Bit	
9742.32-S7	**IP-S7-LINK S7-200/300/400/1200 company license** Win95/98/NT/2000/XP/Vista/Windows 7 32-Bit	
9742.64-S7	**IP-S7-LINK S7-200/300/400/1200 company license** XP/Vista/Windows 7 64-Bit	
9742.32-S7-P	**IP-S7-LINK S7-200/300/400/1200 single license** Win95/98/NT/2000/XP/Vista/Windows 7 32-Bit	
9759-S7	**IP-driver for S7-LAN Windows DLL company license** Win95/98/NT/2000/XP/Vista	
9749.32-P	**PC-MPI-S7-LINK S7-200/300/400 single license** Win95/98/NT/2000/XP/Vista	
9749.LIN-P	**PC-MPI-S7-LINK S7-200/300/400 single license** LINUX	
9749.32	**PC-MPI-S7-LINK S7-200/300/400 company lic.** Win95/98/NT/2000/XP/Vista	
9749.LIN	**PC-MPI-S7-LINK S7-200/300/400 company lic.** LINUX	
9749.32-L	**PC-MPI-S7-LINK S7-200/300/400 school license** Win95/98/NT/2000/XP/Vista	
9749.32-S	**PC-MPI-S7-LINK S7-200/300/400 Sourcecode** Win95/98/NT/2000/XP/Vista	

article:		
Art. ID.	**name**	**price**
9742-PHP-WIN.P	**PHP-Interface for IP-S7-Link single license** for Windows	
9742-PHP-WIN	**PHP-Interface for IP-S7-Link company license** for Windows	
9742-PHP-LIN.P	**PHP-Interface for IP-S7-Link single license** for LINUX	
9742-PHP-LIN	**PHP-Interface for IP-S7-Link company license** for LINUX	
9742.32-S7R-P	**Routing to all PLC single license** via CP to MPI and Profibus	
9742.32-S7R.LIN-P	**Routing to all PLC single license** via CP to MPI and Profibus	
9742.32-S7R	**Routing to all PLC company license** via CP to MPI and Profibus	
9742.32-S7R.LIN	**Routing to all PLC company license** via CP to MPI and Profibus	

SIMATIC S5-communication driver

Driver for the communication with S5-controll systems

- operating systems: Windows CE/NT/2000/XP/Vista, Linux
- programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLCs: Siemens S5, VIPA

article:		
Art. ID.	**name**	**price**
9742.32-H1-P	**IP-H1-LINK for H1/TCP/IP single license** Win95/98/NT/2000/XP/Vista	
9742.32-H1	**IP-H1-LINK for H1/TCP/IP company license** Win95/98/NT/2000/XP/Vista	
9759-S5	**IP-driver for S5-LAN Windows DLL company license** Win95/98/NT/2000/XP/Vista	
9742.32-VP-P	**IP-VIPA-LINK for VIPA TCP/IP CP's single license** Win95/98/NT/2000/XP/Vista	
9742.32-VP	**IP-VIPA-LINK for VIPA TCP/IP CP's company license** Win95/98/NT/2000/XP/Vista	
9748.32-P	**PC-H1-LINK single license** H1-access for standard-Ethernetcard for Win95/98/NT/2000/XP/Vista	
9748.32	**PC-H1-LINK company license** H1-access for standard-Ethernetcard for Win95/98/NT/2000/XP/Vista	
9748.32-S	**PC-H1-LINK Sourcecode** H1-access for standard-Ethernetcard for Win95/98/NT/2000/XP/Vista	
9741-32	**PC-R3964R-LINK protocol RK512 company license** Win95/98/NT/2000/XP/Vista	
9741-S-32	**PC-R3964R-LINK protocol RK512 Sourcecode** Win95/98/NT/2000/XP/Vista	
9745-P	**PC-S5-LINK PG-BUS-AS511 single license** up to 30 PLC's to 1 COM for Win95/98/NT/2000/XP/Vista	
9745	**PC-S5-LINK PG-BUS-AS511 company license** up to 30 PLC's to 1 COM for Win95/98/NT/2000/XP/Vista	
9747-P	**PC-S5-LINK-AS511 single license** 1 PLC to 1 COM for Win95/98/NT/2000/XP/Vista	
9747	**PC-S5-LINK-AS511 company license** 1 PLC to 1 COM for Win95/98/NT/2000/XP/Vista	
9894	**PC-S5-LINK-AS511 school license** 1 PLC to 1 COM for Win95/98/NT/2000/XP/Vista	
9747-S	**PC-S5-LINK-AS511 Sourcecode** 1 PLC to 1 COM for Win95/98/NT/2000/XP/Vista	
9759-S5-PHP-WIN	**PHP-Interface for S5-LAN-LINK company license** for Windows	
9759-S5-PHP-LIN	**PHP-Interface for S5-LAN-LINK company license** for LINUX	

AEG-communication driver

Driver for the communication with AEG-controll systems

- operating systems: Windows CE/NT/2000/XP/Vista, Linux
- programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: A120, A250

article:		
Art. ID.	**name**	**price**
9740.AEG-32	**PC-AEG-LINK company license** Protocol KS-functions (A120, A250) for Win 95/98/NT/2000/XP/Vista	
9740-S.AEG-32	**PC-AEG-LINK Sourcecode** Protocol KS-functions (A120, A250) for Win 95/98/NT/2000/XP/Vista	

BOSCH-communication driver

Driver for the communication with BOSCH-controll systems

- operating systems: Windows CE/NT/2000/XP/Vista, Linux
- programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: BUEP19/BUEP19E

article:		
Art. ID.	**name**	**price**
9749.BO-P	**IP-Bosch-LINK single license** Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista	
9749.BO	**IP-Bosch-LINK company license** Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista	
9749.BO-Linux	**IP-Bosch-LINK Linux** Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista	
9743-32	**PC-Bosch-LINK company license** Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista	
9743-S-32	**PC-Bosch-LINK Sourcecode** Protocol BUEP19/BUEP19E for Win95/98/NT/2000/XP/Vista	

MITSUBISHI/MELSEC-communication driver

Driver for the communication with Mitsubishi/Melsec-controll systems

- operating systems: Windows CE/NT/2000/XP/Vista, Linux
- programming languages: C/C+, C#, VB, VB.NET, Delphi, LabView, Excel, Access, PHP, Java
- PLC's: A-/Q-/FX-series

article:		
Art. ID.	**name**	**price**
9744-32-QJ	**PC-Melsec System-QJ-LINK TCP/IP single license** QJ71E71-100 serial for Win95/98/NT/2000/XP/Vista	
9744-S-32-QJ	**PC-Melsec System-QJ-LINK TCP/IP company license** QJ71E71-100 serial for Win95/98/NT/2000/XP/Vista	
9744-32-QR2	**PC-Melsec System-QR2-LINK serial single license** QJ71E71-100 serial for Win95/98/NT/2000/XP/Vista	
9744-S-32-QR2	**PC-Melsec System-QR2-LINK serial company license** QJ71E71-100 serial for Win95/98/NT/2000/XP/Vista	
9744-32	**PC-Mitsubishi-LINK company license** Win95/98/NT/2000/XP/Vista	
9744-S-32	**PC-Mitsubishi-LINK Sourcecode** Win95/98/NT/2000/XP/Vista	

Visualisation / OPC-Server

simple and comfortable visualisation / data recall by OPC-Server

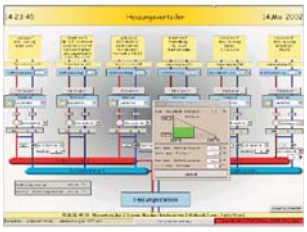
OPC-Server

Data exchange between OPC-Clients and PLC's

- OPC-Clients due to specification 1.0 / 2.0
- protocols: MPI on S7-300/400, PPI on S7-200
- clearly arranged listing of links with status display
- four serial ports (COM1 – COM4)
- low CPU stress

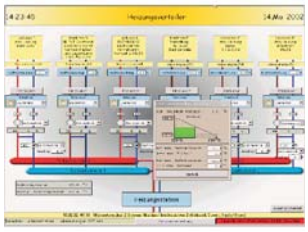
article:		
Art. ID.	**name**	**price**
9769-23	**OPC 3964R** with RK512 serial	
9769-24	**OPC 3964R** with RK512 TCP/IP with 3964R LAN	
9760-10	**OPC AEG 120/250 KS-Fct. on TCP**	
9760-002	**OPC E-Mail Client / Server**	
9760-09	**OPC Klöckner Moeller on TCP**	
9760-19	**OPC Modbus Slave seriell on TCP**	
9760-022	**OPC S5 H1 on ISO**	
9760-003	**OPC SMS/Pager/Voicemail**	
9760-012	**OPC WAGO on TCP** Single license	
9760-004	**OPC XML-DA-package**	
9760-001	**OPC-data base connection**	
9760-110	**OPC-Manager (like 9760-100)** company license per protocol	
9760	**OPC-Manager lite**	
9760-100	**OPC-Manager S7 TCP/IP RFC1006** + OPC S7 MPI/PPI + OPC S7 PPI S7-200 + OPC S5 AS511 serial + OPC S5 H1 on TCP	
9760-100-USB-N	**USB-Dongle for OPC-Manager** past licensing	
9760-100-USB	**USB-Dongle for OPC-Manager** at licensing	

Victory Boxed Release



article:		
Art. ID.	**name**	**price**
V9500-1B	**Victory Boxed Release 5** 1.000 variables	
V9500-005 B	**Victory Boxed Release 5** 50 variables	
V9500-01 B	**Victory Boxed Release 5** 100 variables	
V9500-02 B	**Victory Boxed Release 5** 200 variables	
V9500-05 B	**Victory Boxed Release 5** 500 variables	
V9500-5 B	**Victory Boxed Release 5** 5.000 variables	
V9500-10 B	**Victory Boxed Release 5** 10.000 variables	
V9500-20 B	**Victory Boxed Release 5** 20.000 variables	
V9500-N B	**Victory Boxed Release 5** unlimited variables	

Victory Release 5



Visualisation of your company and your machines' process run

- 32-bit visualisation with multiprocessor support
- unlimited number of variables -> unlimited number of I/O
- Victory is working with following data types: value, text and array (field)
- the text length and array depth is not limited
- each module driver is an independent COM/DCOM-Server, therefore immediately network-compatible
- the cycle program uses the process programming language CPL, which is ajar to the syntax of C / C++
- programming takes place in a modern programming environment and offers several features, which are enormously helpful during processing and in the test phase
- message processing is an inherent part of the Victory's quintessence and is also used for own reporting
- completely new and enormous improved graphic engine
- integrated ODBC connection, HTTP-Server, E-Mail-Client, SMS/Pager/VoiceMail-services
- user management is based on user groups and their assigned activities

article:		
Art. ID.	**name**	**price**
V9530-S5	**Victory Release 5 PLC-driver** Siemens S5 protocols	
V9530-S7	**Victory Release 5 PLC-driver** Siemens S7 protocols	
V9533-1	**Victory Release 5 PLC-driver** AEG Modicon AEG A120 / A250	
V9537-1	**Victory Release 5 PLC-driver** Victory4/WinLab/easyware Victory4 Netfile	
V9538-1	**Victory Release 5 PLC-driver** SAIA & Burgess SAIA PLC via S-Comm	
V9539-1	**Victory Release 5 PLC-driver** General protocols MODBUS Server serial I+TCP/IP	
V9536-1	**Victory Release 5 PLC-driver EPIS** EPIS EMD-series	
V9532-1	**Victory Release 5 PLC-driver Hilscher** Profibus DP (for card CIF-50 PB)	
V9534-1	**Victory Release 5 PLC-driver IBH** IBH softec SoftPLC	
V9531-2	**Victory Release 5 PLC-driver Moeller** Moeller PS4/PS416	
V9535-1	**Victory Release 5 PLC-driver WAGO** WAGO Ethernet TCP/IP FPC	
V9500-1	**Victory Release 5 developer licenses** 1.000 variables	
V9500-20	**Victory Release 5 developer licenses** 20.000 variables	
V9500-N	**Victory Release 5 developer licenses** unlimited variables	
V9510-5	**Victory Release 5 option dialogue/reporter**	
V9510-1	**Victory Release 5 option recorder**	
V9510-4	**Victory Release 5 option switching time planer**	
V9510-6	**Victory Release 5 option touchscreen input**	
V9599-HTTP	**Victory Release 5 HTTP-Runtime licenses** for each HTTP-Client	
V9599-02	**Victory Release 5 Runtime licenses** 200 variables	
V9599-1	**Victory Release 5 Runtime licenses** 1.000 variables	
V9599-5	**Victory Release 5 Runtime licenses** 5.000 variables	
V9599-10	**Victory Release 5 Runtime licenses** 10.000 variables	
V9599-20	**Victory Release 5 Runtime licenses** 20.000 variables	
V9599-N	**Victory Release 5 Runtime licenses** 20.000+ variables	
V9500-MT	**Victory Release 5 maintenance service 12months** per developer license	

Accessories

Here you will find everything you need on our products

Monkey-swing

Connecting cable CP with a S5-PLC

- connects the PG socket of the S5-PLC with the PG socket of the CP
- to program the S5 PLC via the CP
- 15pin D-Sub connector - 15pin D-Sub connector
- length: 60cm

article:		
Art. ID.	**name**	**price**
9359.AF	**monkey-swing** PD-interface CP <=> PD-interface PLC (needed with H1, L1 or L2-bus)	

AG-connection cable

Connect a Allen-Bradley controller with the PC

- Connecting your Allen-Bradley controller to the PC
- 9pol D-Sub-jack - 9pol D-Sub-jack
- length: 3 m

article:		
Art. ID.	**name**	**price**
9359.AB	**PLC-connecting cable** PC <-> Allen-Bradley	

AG150-adapter

Communication & programming of a AG150 controller

- the AG150 adapter is an additional adapter to the PG-Uni, PG-Uni-II or S5-LAN
- AG150 adapter only in conjunction with a Netz adapter used
- bolts and slide lock for fixing
- 15pin (female) - 25pin (female)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-5-150	**AG-150-adapter** for PG-UNI + PG-UNI-II-cable to AG-150	

variant:		
Art. ID.	**name**	**price**
9359-5-150-USB	**PG-USB AG-150-adapter** for PG-USB-cable to AG-150	

accessories:		
Art. ID.	**name**	**price**
9359-4	**NETZ-adapter** for PG-UNI-cable /UNI-II-cable/S5-LAN	

AG150-adapter for PG-USB

Communication & programming of a AG150 controller

- the AG150-adapter is an additional adapter to the PG-USB
- bolts and slide lock for fixing
- 15pin (female) - 25pin (female)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-5-150-USB	**PG-USB AG-150-adapter** for PG-USB-cable to AG-150	

variant:		
Art. ID.	**name**	**price**
9359-5-150	**AG-150-adapter** for PG-UNI + PG-UNI-II-cable to AG-150	

Analogue cable for PCMCIA TAE-modem

Connecting the analogue PCMCIA modem to the telephone socket

- plug for PCMCIA-modem card connection
- TAE plug for the phone jack in Germany/USA
- 3m long cable

article:		
Art. ID.	**name**	**price**
9381.KABEL	**Analogue cable for TAE-modem PCMCIA** PCMCIA-modemcard connection <=> TAE plug Germany/USA (spare part)	

Mounting-set

for DIN-rail-holder

- fast and easy mounting on DIN rail
- mounting kit is made of metal
- scope of supply: 2 x mounting brackets + 2 x screws

article:		
Art. ID.	**name**	**price**
9391-MT	**Mounting set** for DIN-rail-holder	

Cheap-Conn

Connection of a Profibus node to the bus line

- cable connection via compression fitting technique
- integrated switchable terminating resistors
- different cable diameter useable
- one-screw mounting system
- inside screened housing
- 90° cable outlet

Technical Specifications:

Configuration:	Switch for bus termination (ON/OFF)
Interfaces:	**to the PLC:** PPI/MPI/Profibus interface: 9,6 KBd - 12 MBd **to the PD/PC:** PD/diagnosis jack
Operating temperature:	5 - 55°C
Case:	ABS-plastic case
Dimensions:	65 x 43 x 17 mm

article:

Art. ID.	name	price
9350-9-CHP	**CheapConn Busconnector** for PROFIBUS	

accessories:

Art. ID.	name	price
9350-9-CHP-K	**Connecting cable MPIx to CheapConn** 9-pins 1 : 1 plated-through with shield	

COM1 : COM2 - adapter

serial adapter 9pol -> 25pol

- 9pins (male) - 25pins (female)
- 4 screws for mounting
- dimensions: 65 x 55 x 15 mm

article:

Art. ID.	name	price
9359-9	**Adapter COM 1 : COM2** 9pins (male) - 25pins (female)	

COM2 : COM1 - adapter

serial adapter 25pins -> 9pins

- 25pins (male) - 9pins (female)
- 4 screws for mounting
- dimensions: 65 x 55 x 15 mm

article:

Art. ID.	name	price
9359-9.M	**Adapter COM 1 : COM2** 25pins (male) - 9pins (female)	

CP525-adapter

Programming of a CP525

- the CP525-adapter is an additional adapter to the PG-Uni, PG-Uni-II
- connection to the programming port of the CP525
- bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-5	**CP-525-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525	

variant:		
Art. ID.	**name**	**price**
9359-5-USB	**PG-USB CP-525-adapter** for PG-USB-cable to CP-525	

CP525-adapter for PG-USB

Programming of a CP525

- the CP525-adapter is an additional adapter to the PG-USB
- connection to the programming port of the CP525
- bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-5-USB	**PG-USB CP-525-adapter** for PG-USB-cable to CP-525	

variant:		
Art. ID.	**name**	**price**
9359-5	**CP-525-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525	

CP525-K-adapter

Communication with a CP525

- the CP525-adapter is an additional adapter to the PG-Uni, PG-Uni-II
- connection to the communication port of the CP525
- this adapter is also suitable for a CP524 and SA523/525
- bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-5K	**CP-525-K-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	

variant:		
Art. ID.	**name**	**price**
9359-5K-USB	**PG-USB CP-525-K-adapter** for PG-USB-cable to CP-525-communication	

CP525-K-adapter for PG-USB

Communication with a CP525

- the CP525-adapter is an additional adapter to the PG-USB
- connection to the communication port of the CP525
- this adapter is also suitable for a CP524 and SA523/525
- bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-5K-USB	**PG-USB CP-525-K-adapter** for PG-USB-cable to CP-525-communication	

variant:		
Art. ID.	**name**	**price**
9359-5K	**CP-525-K-adapter** for PG-UNI + PG-UNI-II-cable <-> CP-525-communication	

Cross-cable

Network cable crossed connected through

- connect two ethernet devices directly
- foil shielded twisted pair cable
- with bend protection at the plug endings
- RJ45 plug - R45 plug
- pinout for EIA/TIA 56813
- length: 3m

article:		
Art. ID.	**name**	**price**
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	

variant:		
Art. ID.	**name**	**price**
9636-TCPIP.02M	**Patch-cable 0.25m, Cat5e, shielded** RJ45 plug <=> RJ45 plug, 1:1	
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	

DCF-77-antenna

reception of DCF-signals

- 15pol plug for the connection to the SPS-Clock or the DCF-Verstärker
- for reception of DCF-77-signals
- dimensions: 75 x 70 x 55 mm
- length: 5m

article:		
Art. ID.	**name**	**price**
9366	**DCF-77-antenna** cable length 5m for connecting to SPS-Clock	

DCF-amplifier

Prepares your weak or not clean DCF signals

- signal preparing in low DCF reception
- LED to indicate whether a DCF signal is detected

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1 watt
Display:	LED for displaying incoming DCF-signals and power
Interfaces:	15pin D-Sub jack for the DCF-antenna 15pin D-Sub plug for the SPS-Clock 2pin Phönixjack for power supply
Operating temperature:	5 - 55°C
Case:	metal case with mounting flange
Dimensions:	95 x 35 x 135 mm

article:

Art. ID.	name	price
9366-1	**Amplifier for DCF-antenna** processing of the DCF-77-signal for longer distances between antenna and SPS-Clock	

options:

Art. ID.	name	price
9366	**DCF-77-antenna** cable length 5m for connecting to SPS-Clock	

Replacement lamp for LG07

Replaces the defective lamp of LG07

article:

Art. ID.	name	price
9363-3-LAMPE	**Replacement lamp for LG-07** UV-tube with G23-plug	

Replacement lamp for UVL3

Replaces the defective lamp of UVL3

article:

Art. ID.	name	price
9363-4-LAMPE	**Replacement lamp for UVL3** UV-tube with G4T5-plug	

DIN-rail mounting for MPI cables

Simple and quik mounting of MPI cables on the DIN-rail

- fast and easy mounting on DIN rail
- mounting kit is made of black metal
- scope of supply: 1 x bracket for MPI cable + 2 x screws

article:

Art. ID.	name	price
9391-HH	**DIN-rail-holder for MPI/PPI** quick and easy assembling on the cap rail	

variant:

Art. ID.	name	price
9350-WAND	**Wall-mounting** for MPI/PPI + MPI-II + MPI-USB	

iBx-PLC cable

Connecting the iBx-Klemme with the PLC

- 15pol jack for the PD side
- 15pol plug for the AG side
- both sides with plastic cases
- dimensions of the plastic cases: 45 x 40 x 15 mm
- in the variants 1 x 45° cable outlet / 2 x 45° cable outlet

article:		
Art. ID.	**name**	**price**
9530-9S	**iBx-SPS-cable to PLC 3m** one side angled, other side straight cable tap	
9530-9WS	**iBx-SPS-cable to PLC 3m** bothside 45° angle	

ISDN-adapter for analogue terminals

Full ISDN functionality for traditional analogue terminals

- easy installation and automatic recognition of dialling procedure used (pulse dialling, tone dialling)
- can be directly connected to an ISDN multiple device port or to a PABX
- free internal calls between connected telephones
- supports keypad-functions
- full ISDN functionality provided, e.g. call waiting, 3-party conference and toggling
- 2 external calls can be made simultaneously
- 3 numbers (MSN) per analogue port can be configured (up to 6 MSNs possible)
- display of caller's telephone number (CLIP) and reception of SMS messages (FSK-Verfahren) are possible on suitable telephones

Technical Specifications:

Supply voltage:	via an AC adapter 230V/AC 50Hz
Interfaces:	1 x ISDN Basic Rate Access (DSS1) 2 x ports for analogue terminals (coding U / F) 1 x port for analogue terminal (coding N) for additional devices
dialling:	pulse or tone
Case:	plastic case for table operation or wall mounting
Dimensions:	180 x 140 x 45 mm

article:		
Art. ID.	**name**	**price**
9370-ISDN	**ISDN-adapter for analogue terminals** full ISDN-functionality e.g. call waiting, 3-way conferencing, broker's call	

Fiber optic adapter for differential transmission (G)

Connect the differential line with fiber optic technology (fiberglass cable)

- extend and connect the differential transmission line with fiberglass cable
- fail-safe by insensitivity to electromagnetic fields
- no sparks through cable breakage or separation
- no crosstalk possible
- lightning protection guaranteed
- transfer of TxD and RxD

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1,5 watt
Interfaces:	2 x screw terminal for power supply 4 x screw terminal for differential transmission (RxD and TxD) 2 x socket for F-SMA fiber optic connector
Maximum connection length:	2,5 km
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	75 x 65 x 30 mm

article:		
Art. ID.	**name**	**price**
9531-G	**Light wire-adapter** for glasfibre-cables	

variant:		
Art. ID.	**name**	**price**
9531-K	**Light wire-adapter** for plasticfibre-cables	
9532-K	**Light wire-adapter** RS232 for plasticfibre-cables	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	

Fiber optic adapter for differential transmission (K)

Connect the differential line with fiber optic technology (plastic cable)

- extend and connect the differential transmission line with plastic cable
- fail-safe by insensitivity to electromagnetic fields
- no sparks through cable breakage or separation
- no crosstalk possible
- lightning protection guaranteed
- transfer of TxD and RxD

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1,5 watt
Interfaces:	2 x screw terminal for power supply 4 x screw terminal for differential transmission (RxD and TxD) 2 x socket for duplex connectors with or without locking
Maximum connection length:	145 m
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	75 x 65 x 30 mm

article:		
Art. ID.	**name**	**price**
9531-K	**Light wire-adapter** for plasticfibre-cables	

variant:		
Art. ID.	**name**	**price**
9531-G	**Light wire-adapter** for glasfibre-cables	
9532-K	**Light wire-adapter** RS232 for plasticfibre-cables	

accessories:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	

Fiber optic adapter for RS232 (plastic cable)

Connect the RS232 line with fiber optic technology

- extend and connect the RS232 transmission line with plastic cable
- fail-safe by insensitivity to electromagnetic fields
- no sparks through cable breakage or separation
- no crosstalk possible
- lightning protection guaranteed
- transfer of TxD and RxD

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1,5 watt
Interfaces:	3 x screw terminal for power supply and PE 3 x screw terminal for RS232 transmission (RxD, TxD, GND) 2 x socket for duplex connectors with or without locking
Maximum connection length:	145 m
Operating temperature:	5 - 55°C
Case:	powder coated metal case with mounting flange
Dimensions:	75 x 65 x 30 mm

article:

Art. ID.	name	price
9532-K	**Light wire-adapter** RS232 for plasticfibre-cables	

variant:

Art. ID.	name	price
9531-K	**Light wire-adapter** for plasticfibre-cables	
9531-G	**Light wire-adapter** for glasfibre-cables	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	

Magnetic base antenna

Antenna for the reception with the S7-Bridge

- screw on the connector GSM/FME(f) to the S7-WLAN-Bridge
- water-proof IP65
- magnetic base (3x neodyn magnet) for mounting on the cabinet, etc.
- length of the cable (RG174): 3m
- dimensions: ca. 70 x 15 mm, cable diameter: 2,7mm

article:

Art. ID.	name	price
9352-S7-WLAN-Bridge-ANT	**Magnetic base antenna for S7-WLAN-Bridge, WLAN-Klemme** cable length: 3m	

Magnetic base antenna

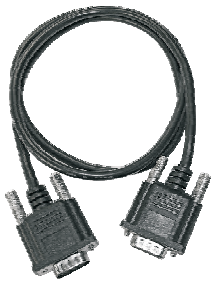
Antenna for the reception with the GSM modem

- screw on the connector to the modem
- magnetic base for mounting on the cabinet, etc.
- length of the cable: 2,5m
- dimensions: 70 x 30 x 30 mm

article:

Art. ID.	name	price
9379-ANT	**Magnetic base antenna** for TP, TS + MPI-Modem	

MPI- / Profibus connecting cable



connecting your S7 with an additional subscriber / device

- 9pol (male) - 9pol (male)
- 4 screws for mounting
- dimensions of the plug: 50 x 35 x 15 mm
- length: 1m

article:		
Art. ID.	**name**	**price**
9379.1	**MPI-/Profibus connecting cable 1m** connects MPI-modem/TP-II with the S7-PLC	

MPI- / Profibus connecting cable (for Tele-Service)

connecting your S7 with an additional subscriber / device

- 9pol (male) - 9pol (male)
- 4 screws for mounting
- dimensions of the plug: 30 x 30 x 13 mm
- length: 1m

article:		
Art. ID.	**name**	**price**
9377.1	**MPI-/Profibus connecting cable 1m** for Tele-Service	

MPI-Netzadapter with power-adapter

Power adapter for MPI-cable

- generates a 24V power supply for the MPI cable
- allows a 2-wire connection to the PLC
- voltage is not on the PLC side
- the rest is connected through 1 : 1

Technical Specifications:

Supply voltage:	100 - 240 V/AC, 50 - 60 Hz
Output voltage:	24 V/DC
Power supply:	15 watt
Interfaces:	**to the PLC:** 9 pol. plug for AG-connection **to the PD/PC:** 9 pol. jack for PD-connection
Operating temperature:	5 - 40°C
Case:	grey plastic case
Dimensions:	65 x 35 x 15 mm

article:		
Art. ID.	**name**	**price**
9350-4	**Power-adapter for MPI-cable** with power-supply unit 100-240VAC	

variant:		
Art. ID.	**name**	**price**
9350-4-ON	**Power-adapter for MPI-cable** without power-supply unit	

MPI-Netzadapter without power-adapter

Power adapter for MPI-cable

- generates a 24V power supply for the MPI cable
- allows a 2-wire connection to the PLC
- voltage is not on the PLC side
- the rest is connected through 1 : 1

Technical Specifications:

Supply voltage:	24 V/DC
Output voltage:	24 V/DC
Power supply:	depending on your voltage source
Interfaces:	**to the PLC:** 9 pol. plug for AG-connection **to the PD/PC:** 9 pol. jack for PD-connection
Operating temperature:	5 - 40°C
Case:	grey plastic case
Dimensions:	65 x 35 x 15 mm

article:

Art. ID.	name	price
9350-4-ON	**Power-adapter for MPI-cable** without power-supply unit	

variant:

Art. ID.	name	price
9350-4	**Power-adapter for MPI-cable** with power-supply unit 100-240VAC	

accessories:

Art. ID.	name	price
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	

NETZ-adapter

Generats own current sources

- generates new current sources for the communication
- operation area: damaged current sources, not existing current sources, sanded current sources, passiv interfaces, ...
- external power supply

Technical Specifications:

Supply voltage:	24V/DC +/- 20%
Power consumption:	1 watt
Interfaces:	2 x TTY/20mA current loop (1 x 15pol plug / 1 x 15pol jack)
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	50 x 45 x 15 mm

article:

Art. ID.	name	price
9359-4	**NETZ-adapter** for PG-UNI-cable /UNI-II-cable/S5-LAN	

Null-modem-cable

Conenction from PC to PC

- Ideal for connecting PC to PC
- for other applications suited as well by the crossed contact
- TXD -> RXD / RXD -> TXD
- 9pol D-Sub-jack - 9pol D-Sub-jack
- length: 3 m

article:		
Art. ID.	**name**	**price**
9359.0	**Null-modem-cable 9-pin D-SUB** D-SUB 9pins (female) <=> D-Sub 9pins (female), rotated assignment (null modem)	

variant:		
Art. ID.	**name**	**price**
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	

OP-programming cable

Connect a Siemens Panal with a PC

- connect a Siemens Panal (15pin RS232 interface) with a PC
- screws and slide lock for fixing
- 15pin (male) - 9pin (female)
- length: 3 m

article:		
Art. ID.	**name**	**price**
9359.OP	**OP-Programming cable to PC 3m** serial progamming cable for panels; D-Sub 9pins (female) <=> 15pins (male)	

Option CheapConn for MPI cables

Parallel connection of a MPI cable on the bus

- connect your CheapConn with one of our MPI cable for parallel programming on the bus
- plug in with simple and mix-up-proof standardized connectors to the MPI cable
- consisting of the CheapConn connection cable and a CheapConn
- fully assembled and ready for mounting on the MPI cable
- 9-pin 1 : 1 plated-through
- screen connected through
- length: 0.5 m

article:		
Art. ID.	**name**	**price**
9350-9-CHP-CC	**Option CheapConn for MPI** 9350-9-CHP+9350-9-CHP-K already mounted	

accessories:		
Art. ID.	**name**	**price**
9350-9-CHP	**CheapConn Busconnector** for PROFIBUS	
9350-9-CHP-K	**Connecting cable MPIx to CheapConn** 9-pins 1 : 1 plated-through with shield	

Patch cable

Network cable 1 : 1 connected through

- connect your ethernet device with a HUB/Switch or a wall plate
- foil shielded twisted pair cable
- with bend protection at the plug endings
- RJ45 plug - R45 plug
- pinout for EIA/TIA 568
- length: 3m

article:		
Art. ID.	**name**	**price**
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	

variant:		
Art. ID.	**name**	**price**
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	
9636-TCPIP.02M	**Patch-cable 0.25m, Cat5e, shielded** RJ45 plug <=> RJ45 plug, 1:1	

Patchcable 0.25m

Optimal for connecing the S7-Bridge to the S7-LAN

- connect your S7-WLAN-Bridge with a S7-LAN on the shortest way
- foil shielded twisted pair cable
- with bend protection at the plug endings
- RJ45 plug - R45 plug
- pinout for EIA/TIA 568
- length: 0,25m

article:		
Art. ID.	**name**	**price**
9636-TCPIP.02M	**Patch-cable 0.25m, Cat5e, shielded** RJ45 plug <=> RJ45 plug, 1:1	

variants:		
Art. ID.	**name**	**price**
9636-CROSS	**Cross-cable 3m Cat5+, shielded** RJ45 plug <=> RJ45 plug, twisted pinning	
9636-TCPIP	**Patch-cable 3m, Cat5+, shielded** RJ45 plug <=> RJ45 plug, 1:1	

PC-104-card 1-channel or 2-channel

Provides PPI, MPI- and Profibus

- Card conforms to PC104-declaration (90.2 x 95.9mm)
- Depending on the version 1 or 2 connector sockets for post-spring-bar for PPI, MPI and Profibus
- Supports all baud rates up to 12M
- PC104 bus through dual-Portet-Ram separate from actual hardware
- PPI, MPI and PROFIBUS is electrically isolated from residual Hardware
- Firmware is kept in the integrated flash-memory, therefore easier update possible

article:		
Art. ID.	**name**	**price**
9352-104	**MPI-PC104-card 1 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	

variant:		
Art. ID.	**name**	**price**
9352-104-2	**MPI-PC104-card 2 channel up to 12Mbaud** equates to PC104-standard (90.2 x 95.9mm)	

PCMCIA-modemcard (analogue)

Connection to the analog telephone network via PCMCIA

- BZT-permission (D132754J / CTR21 / CEO560X)
- transfer rate up to 56000 Bps vollduplex asynchron
- AT-Hayes instruction set
- getting an outgoing line with flash or number
- MNP 2-4, V.42 / MNP 5, V.42bis
- Analogue telefone lead included in delivery
- communication-/fax-software included in delivery

Technical Specifications:

Power consumption:	250 mA
Interfaces:	1 x PCMCIA to PD/PC 1 x analogue connection
Specifications:	CCITT V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.fc, V.34, V.34+, K56flex
Case:	PCMCIA-format 2.0 type II
Dimensions:	85 x 55 x 5 mm

article:		
Art. ID.	**name**	**price**
9381	**TAE-modemPCMCIA-card for TELE-BOOK** pcmcia-card inclusive telefon-lead and TAE-adapter	

options:		
Art. ID.	**name**	**price**
9381.KABEL	**Analogue cable for TAE-modem PCMCIA** PCMCIA-modemcard connection <=> TAE plug Germany/USA (spare part)	

PG-ISO-Adapter

galvanic separation up to 1000V

- contact-protected plastic case
- generates new current sources and a ne ground for the communication
- galvanic separation between PC and PLC up to 1000V
- power supply from the PLC

Technical Specifications:

Supply voltage:	5V/DC and/or 24V/DC +/- 20%
Power consumption:	1 watt
Interfaces:	2 x TTY/20mA current loop (1 x 15pol plug / 1 x 15pol jack)
Galvanic separation:	1000V PLC to the PC
Operating temperature:	5 - 55°C
Case:	plastic case
Dimensions:	50 x 45 x 15 mm

article:		
Art. ID.	**name**	**price**
9359-8	**PG-ISO-adapter** 1000V galv. seperation	

PG-UNI-II lengthening set

Lengthening of the PG-UNI-II cable up to 300m

- extend your PG-UNI-II cable on the PLC side up to 300m
- all parts included except the connection cable
- instructions and description of the pin configuration included
- length is selectable arbitrarily / up to 300m

article:		
Art. ID.	**name**	**price**
9359-7-II	**PG-UNI-II - lengthening set**	

PG-UNI lengthening set

Lengthening of the PG-UNI cable up to 300m

- extend your PG-UNI cable on the PLC side up to 300m
- all parts included except the connection cable
- instructions and description of the pin configuration included
- length is selectable arbitrarily / up to 300m

article:		
Art. ID.	**name**	**price**
9359-7	**PG-UNI - lengthening set**	

PG-USB lengthening set

Lengthening of the PG-USB cable up to 100m

- extend your PG-USB cable on the PLC side up to 100m
- all parts included except the connection cable
- instructions and description of the pin configuration included
- length is selectable arbitrarily / up to 100m

article:		
Art. ID.	**name**	**price**
9359-7-USB	**PG-USB-lengthening set** complete mounting set	

PG685 cable

Connction cable of a PG685 to a S5-PLC

- 15pin D-Sub PLC connectivity via 25-pin D-sub PG685
- supply from the PLC over the 5V power supply
- the transducer electronics are fully integrated in the cable
- length: 3 m

article:		
Art. ID.	**name**	**price**
9359-91	**PG-685-cable 5m** replacement cable for PD-685 to S5-PLC, D-Sub 25pins (male) <=> D-Sub 15pins (male)	

PLCC32-adapter

Writing on a Flash in the PLCC32 housing with the Multi-Prommer

- with this adapter are also flashs in PLCC32 housing plugable in a dual inline socket
- on the dual inline socket continue the usual pin order
- with ejection mechanism of the PLCC32-socket

article:		
Art. ID.	**name**	**price**
9363-13	**PLCC32-adapter** for MULTI-Prommer	

Prof-II-Starterkit

Starter Set for Prof-II remote maintenance

- for a simple introduction to PLC remote maintenance
- set consists 11 parts

Content:

- power adapter 110 - 240V/AC -> 24V/DC
- MPI- / Profibus cable
- S5-cable
- patch cable
- cross cable
- serial cable 9-pin
- null modem cable
- USB-cable A - A
- USB-cable A - B
- telephone cable ISDN
- telephone cable analogue D/USA

article:		
Art. ID.	**name**	**price**
9372	**TELE-PROFessional II Starter-Kit** completing 9372-OEM	

RS232 / V24 converter module

TTL <-> RS232 Converter-IC

- replacement component for your PG-COM and PG-UNI
- converts TTL signals to RS232
- module in DIL20 housing

article:		
Art. ID.	**name**	**price**
9359-MAX233	**RS232 / V24 chip** for interfacecable	

S5-cable

1:1 connecting cable for the S5-controller

- 15pol jack for the PD side
- 15pol plug for the AG side
- both sides with plastic cases
- dimensions of the plastic cases: 45 x 40 x 15 mm
- in the variants 3m / 5m / 6m / 10m

article:		
Art. ID.	**name**	**price**
9361-3	**S5-connecting cable 3m** forTELE-PROF, MINI-/PG-MUX-II	
9361-3.05M	**S5-connecting cable 5m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.06M	**S5-connecting cable 6m** for TELE-PROF, MINI-/PG-MUX-II	
9361-3.10M	**S5-connecting cable 10m** for TELE-PROF, MINI-/PG-MUX-II	

SC-09 cable

Couples the PC (9 pol. COM-interface) with the RS485 interface port of the PLC

- PLC connectivity via 25-pin D-sub or mini-DIN (special adapter)
- supply from the PLC over the 5V power supply
- the transducer electronics are fully integrated in the cable
- length: 3 m

article:		
Art. ID.	**name**	**price**
9359.M	**SC-09 cable 3m for Mitsubishi** RS232 <-> RS485	

Serial PCMCIA-adapter

Serial COM-Port using a PCMCIA-card

- extend your device to a serial 9 pin interface
- generats an RS232 interface from a PCMCIA interface
- transfer rate up to 115.2 kbit/s
- PCMCIA card is completely immersed in the device
- dimensions: 85 x 55 x 5 mm
- 15 cm cable with 9-pin connector

article:		
Art. ID.	**name**	**price**
9370-COM	**Serial PCMCIA-adapter** for TP + TB	

Serial cable 9-pin

Connecting serial devices

- Ideal for connecting our serial devices to the PC
- for other applications suited as well by the 1 : 1 contact
- 9pol D-Sub-plug - 9pol D-Sub-jack
- length: 3 m

article:		
Art. ID.	**name**	**price**
9359.1:1	**1:1 cable 9pins D-SUB** D-SUB 9pins (male) <=> D-Sub 9pins (female), 1to1-assignment	

variant:		
Art. ID.	**name**	**price**
9359.0	**Null-modem-cable 9-pin D-SUB** D-SUB 9pins (female) <=> D-Sub 9pins (female), rotated assignment (null modem)	

Servicebag for Mini-/Flash-Prommer

spacious and robust servicebag

- for the MINI-Prommer and FLASH-Prommer applicable
- everything for the MINI-/FLASH-Prommer in one bag stowable
- equipped with a handle for comfortable transport
- robust zipper for opening and closing
- washable surface

Technical Specifications:

Material:	rugged synthetic leather
Colour:	black
Attachment features:	1 x velcro strips for mounting the device 1 x rubber strap for the cables 1 x pocket for the manual / CDs / documentations / etc.
Dimensions:	200 x 175 x 65 mm

article:		
Art. ID.	**name**	**price**
9363-6	**Servicebag** MINI-PROMMER + FLASH-PROMMER	

Servicebag for MULTI-Prommer

spacious and robust servicebag

- for the MULTI-Prommer applicable
- everything for the MULTI-Prommer in one bag stowable
- equipped with a handle for comfortable transport
- robust zipper for opening and closing
- washable surface

Technical Specifications:

Material:	rugged synthetic leather
Colour:	black
Attachment features:	1 x velcro strips for mounting the device 1 x rubber strap for the cables 1 x pocket for the manual / CDs / documentations / etc.
Dimensions:	280 x 325 x 100 mm

article:		
Art. ID.	**name**	**price**
9363-7	**Servicebag** for MULTI-PROMMER	

Servicebag for PG-MUX-II

spacious and robust servicebag

- for the PG-MUX-II applicable
- everything for the PG-MUX-II in one bag stowable
- equipped with a handle for comfortable transport
- robust zipper for opening and closing
- washable surface

Technical Specifications:

Material:	rugged synthetic leather
Colour:	black
Attachment features:	1 x velcro strips for mounting the device 1 x rubber strap for the cables 1 x pocket for the manual / CDs / documentations / etc.
Dimensions:	265 x 260 x 55 mm

article:		
Art. ID.	**name**	**price**
9361-6	**Servicebag** for PG-MUX-II	

Servicebag für TB, TP, TP-II-Flat

spacious and robust servicebag

- for the TB, TP, TP-II applicable
- everything for the TB, TP, TP-II in one bag stowable
- equipped with a handle for comfortable transport
- robust zipper for opening and closing
- washable surface

Technical Specifications:

Material:	rugged synthetic leather
Colour:	black
Attachment features:	1 x velcro strips for mounting the device 3 x rubber strap for the cables 1 x pocket for the manual / CDs / documentations / etc.
Dimensions:	325 x 325 x 60 mm

article:		
Art. ID.	**name**	**price**
9371-6	**Servicebag** for TP, TB + TP-II-FLAT	

Sinum-adapter

Communication & programming of a Sinumerik controller

- the Sinum-adapter is an additional adapter to the PG-Uni, PG-Uni-II or S5-LAN
- this adapter can be used with a 805, 810, 820, 840, 850, 880
- bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-6	**SINUM-adapter** for PG-UNI + PG-UNI-II-cable to SINUMERIK	

variant:		
Art. ID.	**name**	**price**
9359-6-USB	**PG-USB SINUM-adapter** for PG-USB-cable to SINUMERIK	

Sinum-adapter for PG-USB

Communication & programming of a Sinumerik

- the Sinum-adapter is an additional adapter to the PG-USB
- this adapter can be used with a 805, 810, 820, 840, 850, 880
- bolts and slide lock for fixing
- 15pin (female) - 25pin (male)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-6-USB	**PG-USB SINUM-adapter** for PG-USB-cable to SINUMERIK	

variant:		
Art. ID.	**name**	**price**
9359-6	**SINUM-adapter** for PG-UNI + PG-UNI-II-cable to SINUMERIK	

Modem for dedicated line for TP

Connection between TP-devices without phone

- Connects 2 TP-devices directly via a copper cable (phone-net not requiered)
- Module suitable for direct switch control box wall mount
- Supply of 24V DC
- Dimension: 77 x 66 x 32mm
- Used in pairs

article:		
Art. ID.	**name**	**price**
9370-SLM	**Leased-line modem for TP** only usuable as pairs	

Connector 2pins big

Plug for voltage supply

- Connector socket with 2 contacts
- Cable connection with screw terminal
- Locked with the jack with screws

Technical Specifications:

Number of positions:	2
Nominal voltage:	250 V (maximum)
Nominal current:	12 A (maximum)
Pitch:	5,08 mm
Stripping length:	7 mm
Inflammability class:	V0

article:		
Art. ID.	**name**	**price**
9371-24	**Power connector 2pins big** connector plug lockable by jack with screws	

Connector 2pins small

Plug for voltage supply

- Connector socket with 2 contacts
- Cable connection with screw terminal

Technical Specifications:

Number of positions:	2
Nominal voltage:	160 V (maximum)
Nominal current:	8 A (maximum)
Pitch:	3,81 mm
Stripping length:	7 mm
Inflammability class:	V0

article:		
Art. ID.	**name**	**price**
9352-24	**Power connector 2pins small** cable coupling by screw-connector (small)	

Connector 3pins big

Plug for voltage supply

- Connector socket with 3 contacts
- Cable connection with screw terminal
- Locked with the jack with screws

Technical Specifications:

Number of positions:	3
Nominal voltage:	250 V (maxmum)
Nominal current:	12 A (maximum)
Pitch:	5,08 mm
Stripping length:	7 mm
Inflammability class:	V0

article:		
Art. ID.	**name**	**price**
9372-24	**Power connector 3pins big** connector plug lockable by jack with screws	

AC adapter

external power-source for our products

- universal power adapter for all our products
- power supply for a wide field of applications
- recognizes and automatically adjusts itself to the applied voltage (100V - 240V)
- Europe and USA plug included

Technical Specifications:

Supply voltage:	100 - 240 V/AC, 50 - 60 Hz
Output voltage:	24 V/DC
Power supply:	15 watt
Operating temperature:	5 - 40°C
Case:	black plastic case
Dimensions:	85 x 50 x 32 mm

article:		
Art. ID.	**name**	**price**
9391.1	**24V DC power-supply unit 625mA** Primary 110V - 240 VAC Euro+USA-plug	

TAE-junction box

Junction box for installation on wall

- Junction box for analogue telephone signals
- Coding NFF (message device - telephone - telephone)
- Suitable for surface mounting

article:		
Art. ID.	**name**	**price**
9370-TAE	**TAE junction box** analogue telephone box (NFN) for on-wall mounting	

Tele-CP cable

Connecting a CP with a TP or TB

- is part of the H1, L1, L2 option for the TP and TB
- connect the PG TTY interface of the TP and TB with the CP
- slide lock for fixing
- 15-pin (male) - 15-pin (male)
- length: 3 m

article:		
Art. ID.	**name**	**price**
9359-90	**CP-cable** connects PD-TTY-port of TP-I, TP-II with L1,H1,L2-CP, D-Sub 15pins (male) <=> D-Sub 15pins (male)	

Phone-connector-set 16parts

worldwide use

- content: 13 europeane modem-adapters
- Koskin - (synthetic leather) organizer for quick reference
- adapts modems to european destinations
- easy-to-use country selection guide
- convenient travel pouch holds a few adapters while you travel
- dimensions of the Koskin-organizer: 255 x 195 x 50 mm

article:		
Art. ID.	**name**	**price**
9370-SET	**Phone-connector-set 16parts** worldwide use	

Telephone cable Belgium

Connecting our products to the telephone network european wide

- RJ11 plug for modem connection
- Belgian plug for the phone jack in Belgium
- 3m long cable

article:		
Art. ID.	**name**	**price**
9370-8-BE	**Special phone-cable for Belgium** RJ12 plug <=> telephone plug of Belgium	

Telephone cable Germany/USA

Connecting our products to the telephone network european wide

- RJ11 plug for modem connection
- TAE plug for the phone jack in Germany/USA
- 3m long cable

article:		
Art. ID.	**name**	**price**
9370-8-D/USA	**Phone-cable analogue Germany+USA** RJ12 plug <=> RJ12 plug with TAE-adapter for Germany	

Telephone cable Denmark

Connecting our products to the telephone network european wide

- RJ11 plug for modem connection
- Danish plug for the phone jack in Denmark
- 4,5m long cable

article:		
Art. ID.	**name**	**price**
9370-8-DK	**Special phone-cable for Denmark** RJ12 plug <=> telephone plug of Denmark	

Telephone cable France

Connecting our products to the telephone network european wide

- RJ11 plug for modem connection
- F010 plug for the phone jack in France
- 4,5m long cable

article:		
Art. ID.	**name**	**price**
9370-8-FR	**Special phone-cable for France** RJ12 plug <=> telephone plug of France	

Telephone cable Great Britain

Connecting our products to the telephone network european wide

- RJ11 plug for modem connection
- 631A plug for the phone jack in Great Britain
- 3m long cable

article:		
Art. ID.	**name**	**price**
9370-8-GB	**Special phone-cable for Great Britain** RJ12 plug <=> telephone plug of Great Britain	

Telephone cable ISDN

Connecting our products to ISDN

- RJ45 connector - RJ45 connector
- 1 : 1 connected through
- flatband cable black
- 3m long cable

article:		
Art. ID.	**name**	**price**
9370-8-ISDN	**Phone-cable ISDN** RJ45 plug <=> RJ45 plug, assigned 1to1	

Telephone cable Netherlands

Connecting our products to the telephone network european wide

- RJ11 plug for modem connection
- m.W. PTT DHZ doos plug for the phone jack in the Netherlands
- 4,5m long cable

article:		
Art. ID.	**name**	**price**
9370-8-NL	**Special phone-cable for Netherlands** RJ12 plug <=> telephone plug of the Netherlands	

Telephone cable Switzerland

Connecting our products to the telephone network european wide

- RJ11 plug for modem connection
- Reichle plug for the phone jack in Switzerland
- 3m long cable

article:		
Art. ID.	**name**	**price**
9370-8-CH	**Special phone-cable for Switzerland** RJ12 plug <=> telephone plug of Switzerland	

Telephone cable Austria

Connecting our products to the telephone network european wide

- RJ11 plug for modem connection
- TDO plug for the phone jack in Austria
- 3m long cable

article:		
Art. ID.	**name**	**price**
9370-8-AT	**Special phone-cable for Austria** RJ12 plug <=> telephone plug of Austria	

TS-adapter

Connecting a serial MPI cable to a modem

- adapter makes a 9-pin plug of a 9-pin jack
- simply adjust the MPI cable for TS function and add the adapter
- pin assignment turned in the adapter
- bolts and screws to fasten
- screen connected through
- length: 20 cm

article:		
Art. ID.	**name**	**price**
9350-TS	**Adapter cable 9pins to modem** for TS-function	

USB 2.0 connection cable type A/A

Connecting USB - devices with Type A connector

- suitable for USB 1.1 / 2.0 up to 480 Mbps
- connector type A to connector type A
- length: 3m

article:		
Art. ID.	**name**	**price**
9352.1	**USB-cable plug/plug Type A-A 3m** USB 1.1 / 2.0 up to 480 MBit	

variant:		
Art. ID.	**name**	**price**
9352.2	**USB-cable plug/plug Type A-B 3m** USB 1.1 / 2.0 up to 480 MBit	
9352.3	**USB-cable plug/plug Type A-B-Mini 3m** USB 1.1 / 2.0 up to 480 MBit	

USB 2.0 connection cable type A/B

Connecting USB - devices with Type B connector

- suitable for USB 1.1 / 2.0 up to 480 Mbps
- connector type A to connector type B
- length: 3m

article:		
Art. ID.	**name**	**price**
9352.2	**USB-cable plug/plug Type A-B 3m** USB 1.1 / 2.0 up to 480 MBit	

variant:		
Art. ID.	**name**	**price**
9352.1	**USB-cable plug/plug Type A-A 3m** USB 1.1 / 2.0 up to 480 MBit	
9352.3	**USB-cable plug/plug Type A-B-Mini 3m** USB 1.1 / 2.0 up to 480 MBit	

USB 2.0 connection cable type A/Mini B

Connecting USB - devices with a Mini B connector

- suitable for USB 1.1 / 2.0 up to 480 Mbps
- connector type A to connector type Mini-B
- length: 3m

article:		
Art. ID.	**name**	**price**
9352.3	**USB-cable plug/plug Type A-B-Mini 3m** USB 1.1 / 2.0 up to 480 MBit	

variants:		
Art. ID.	**name**	**price**
9352.1	**USB-cable plug/plug Type A-A 3m** USB 1.1 / 2.0 up to 480 MBit	
9352.2	**USB-cable plug/plug Type A-B 3m** USB 1.1 / 2.0 up to 480 MBit	

USB-Serial-Converter cable

Connecting a serial interface via a USB-Port

- generates from a USB-Port a serial Port (9pol. COM-interface)
- supports S5- and S7-interface parameter
- drivers are included for Win 2000 / XP
- free selectable COM-Port: COM1 – COM256
- baud rate: 300 Bit/s – 115,2 KBit/s
- dataflowcontrol: Xon/Xoff, RTS/CTS
- several converters are simultaneously useable at one PC
- complete electronics in the plug housing
- cable length 3m
- power supply from the USB interface

Technical Specifications:

Supply voltage:	5V/DC
Power consumption:	0,2 watt
Display:	2 status-LEDs for RXT/TXD
Interfaces:	**to the PD/PC:** USB 1.1 cable type A **others:** RS232: 300 Bd - 115,2 KBd
Operating temperature:	5 - 55°C
Case:	metal case
Dimensions:	60 x 30 x 14 mm

article:		
Art. ID.	**name**	**price**
9359-1-RS232	**USB-Serial-converter cable 3m** USB <=> RS-232	

V24-adapter

Level-converter for PLC-TTY-Port

- Contact-protected plastic case
- Generates from the PLC-TTY-port a RS232-port
- Ideal for use with TELE-LINK units to connect a S7-PLC via S7 interface cable
- Power supply from the PLC-TTY-port

article:		
Art. ID.	**name**	**price**
9359-V24	**V24-adapter** generates a PLC-V24-interface out of the PLC-TTY-interface, ideal for Tele-Link and S5-Diag	

Connection cable MPI - X to CheapConn

Joining a CheapConn to an MPI cable for parallel connection on the bus

- connect your CheapConn with one of our MPI cable for parallel programming on the bus
- plug in with simple and mix-up-proof standardized connectors
- 9-pin 1 : 1 plated-through
- screen connected through
- length: 0.5 m

article:		
Art. ID.	**name**	**price**
9350-9-CHP-K	**Connecting cable MPIx to CheapConn** 9-pins 1 : 1 plated-through with shield	

Wall mounting of MPI cables

Simple and quik mounting of MPI cables at the wall

- fast and easy mounting at the wall
- mounting kit is made of plastic
- scope of supply: 2 x cementing clip + 2 x screws + 2 x cable tie

article:		
Art. ID.	**name**	**price**
9350-WAND	**Wall-mounting** for MPI/PPI + MPI-II + MPI-USB	

variant:		
Art. ID.	**name**	**price**
9391-HH	**DIN-rail-holder for MPI/PPI** quick and easy assembling on the cap rail	

WF470-adapter

Communication & programming of a WF470

- the WF470 adapter is an additional adapter to the PG-Uni, PG-Uni-II
- WF470 adapter only in conjunction with a Netz adapter used
- bolts and slide lock for fixing
- 15pin (female) - 25pin (female)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-5-WF470	**WF-470-adapter** for PG-UNI + PG-UNI-II-cable to WF470	

variant:		
Art. ID.	**name**	**price**
9359-5-WF470-USB	**PG-USB WF-470-adapter** for PG-USB-cable to WF470	

accessories:		
Art. ID.	**name**	**price**
9359-4	**NETZ-adapter** for PG-UNI-cable /UNI-II-cable/S5-LAN	

WF470-adapter for PG-USB

Communication & programming of a WF470

- the WF470-adapter is an additional adapter to the PG-USB
- bolts and slide lock for fixing
- 15pin (female) - 25pin (female)
- length: 10 cm

article:		
Art. ID.	**name**	**price**
9359-5-WF470-USB	**PG-USB WF-470-adapter** for PG-USB-cable to WF470	

variant:		
Art. ID.	**name**	**price**
9359-5-WF470	**WF-470-adapter** for PG-UNI + PG-UNI-II-cable to WF470	

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